

# CITY OF OAKLAND



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September 30, 2021

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Re: DOJ No. 90-5-1-1-09361/2

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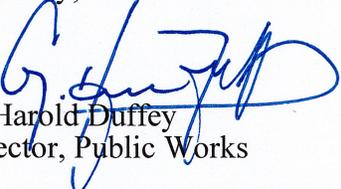
RE: City of Oakland Consent Decree Annual Report, FY20-21

Dear Mr. Magnan, et al.:

In accordance with provision *XVIII. Annual Reporting Requirements* of the Consent Decree – Case Nos. C09-00186 and 09-05684, please find here-in the City of Oakland's Annual Report for the period July 1, 2020 through June 30, 2021.

If you have any questions about this report, please contact Mr. Tyree Jackson, Regulatory Compliance Officer, at 510-238-3672.

Sincerely,

  
G. Harold Duffey  
Director, Public Works

Cc (via email only): Nicole C. Sasaki (Bay Keeper)  
Christopher A. Sproul (Environmental Advocates)  
Eileen White (EBMUD)

Enclosed: 2020-21 Annual Report



CITY OF OAKLAND

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Consent Decree, Consolidated Case Nos. C 09-00186-RS and C 09-05684-RS

# Annual Report

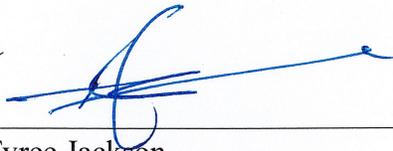
Reporting Period: July 1, 2020 – June 30, 2021

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September 2021

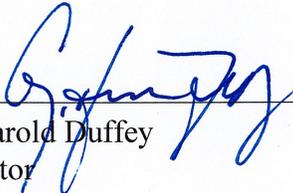
Certification

I certify under penalty of law that this document and its attachments were prepared either by me personally or under my direction or supervision in a manner designed to assure that qualified and knowledgeable personnel properly gathered and presented the information contained herein. I further certify, based on my personnel knowledge or on my inquiry of the individuals immediately responsible for obtaining the information, that to the best of my knowledge and belief the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing and willful submission of a materially false statement.



\_\_\_\_\_  
Tyree Jackson  
Compliance Officer, LRO  
Oakland Public Works

\_\_\_\_\_  
Date 9/30/21



\_\_\_\_\_  
G. Harold Duffey  
Director  
Oakland Public Works

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Date 9/30/2021

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## **Section 1. – Introduction**

In accordance with Section XVII – *Annual Reporting Requirements*, of the Final Consent Decree Consolidated Case Nos. C09-00186-RS and C09-05684-RS, the City of Oakland (City) submits to the Plaintiffs, with copy to the Intervenor-Plaintiffs, this annual progress report covering the period July 1<sup>st</sup> through June 30<sup>th</sup> of fiscal year 2020-2021. The purpose of this report is to demonstrate all plans, actions, and necessary measures taken by the City to meet its obligations and performance objectives under the Consent Decree to achieve ultimate compliance with the Clean Water Act, Porter-Cologne Water Quality Control Act, and NPDES Permit No. CA0038512. The principal goal of the program work reported herein is in furtherance of the elimination of conditions in the City of Oakland’s wastewater collection system that contribute to discharges from the wet-weather facilities operated by East Bay Municipal Utility District (EBMUD) into the San Francisco Bay. It is also the goal of the actions and efforts reported herein, to reduce and eliminate the occurrence of preventable sanitary sewer overflows that result in discharge to Waters of the United States.

The City has made every effort to meet the annual operation, maintenance, repair, and rehabilitation requirements as stipulated in this Consent Decree during the current reporting period. Improving the wastewater programs, the collection system, and the provision of service to the Oakland community and our regional partners, remains a top priority for the City. As a result of this prioritization, the cumulative completion of sewer rehabilitation work remained on schedule and the amount of untreated wastewater discharged into local waterways and/or waters of the U.S. due to sanitary sewer overflows continued to trend downward. In spite of the tremendous disruption to labor and the procurement of services and materials that has resulted from the COVID-19 global pandemic, the City’s wastewater budget, staffing of essential workers, and tool and equipment inventory remained stable over the past fiscal year. Although not without impact, the City continued all work required and necessary to maintain compliance with the Consent Decree, and achieve its ultimate water quality objectives.

## Section 2. – Program Compliance and Reporting Matrix

The following table summarizes the City’s completion of performance requirements, and its compliance with program mandates, as stipulated in the Consent Decree:

**Table 2.1 – Compliance Matrix**

Category	Reference	Description	Status
<b>AMIP Implementation</b>	165.	Implementation of each element of AMIP;	Full Compliance
<b>I&amp;I Reduction Work - MLX Rehab</b>	166.a.i.A.	Amount of sewer pipe rehab (Appendix H locations);	Full Compliance
	166.a.i.B.	Amount of sewer pipe rehab (supplemental locations);	
	166.a.i.C.	Number of maintenance holes rehab;	
	166.a.i.F.	Amount of dollars budgeted and spent on sewer pipe rehab;	
	166.a.i.G.	the Sewer Mains targeted to be Rehabilitated in the next Fiscal Year;	
<b>I&amp;I Reduction Work - MLX Inspection &amp; Condition Assessment</b>	166.a.ii.A.	Amount of sewer pipe inspected and assessed (CCTV);	Full Compliance
	166.a.ii.B.	Amount of sewer pipe inspected and assessed (alternate method);	
	166.a.ii.C.	Amount of maintenance holes inspected and assessed;	
<b>I&amp;I Reduction Work - Regional Standards</b>	166.a.iii.	Maintain conformance with Regional Standards;	Full Compliance
<b>I&amp;I Reduction Work - SLX Inspection &amp; Repair/Rehab - PSLs</b>	166.b.i.A.	Identification of defective private sewer laterals.	Full Compliance
	166.b.i.B.	Notification of defective private sewer laterals;	
	166.b.i.E.	Number of Oakland-owned sewer laterals inspected and repaired;	
	166.b.i.G.	Sewer lateral education and outreach;	

Category	Reference	Description	Status
I&I Reduction Work - I&RI Identification and Elimination	166.c.i.	Cooperation with EBMUD's implementation of the RTSP;	Full Compliance
	166.c.ii.A.-166.c.iv.B.	Evaluation, analysis, designation, and elimination of Linear/Non-linear/Private High-Priority source(s) of I&I from EBMUD's RTSP;	
SSO Reduction - Capacity Assurance	167.a.i-iv..	Capacity assurance monitoring and SSO prevention;	Full Compliance
SSO Reduction - Post-SSO Inspection	167.b.	Completion of post-SSO CCTV inspections;	Full Compliance
SSO Reduction - Acute Defects	167.c.i.	Identification and repair of <i>Acute Defects</i> ;	Full Compliance
SSO Reduction - MLX Maintenance	167.d.i.-iii.	Amount of pipe maintenance completed;	Full Compliance
	167.e.	Amount of chemical root control maintenance completed;	
	167.f.	Implementation of 'hot spot' maintenance program;	
SSO Reduction - FOG Prevention	167.g.	Implementation of FOG program;	Partial Compliance <sup>i</sup>
SSO Reduction - Pump Stations	167.h.	Pump station upgrades and/or renovations.	Full Compliance

<sup>i</sup> FOG Control program FSE inspections were limited due to City-wide COVID-19 prevention protocols initiated at/around September 16<sup>th</sup>, 2020 pursuant to the City's proclamation of local emergency (COVID-19 Local Emergency).

### Section 3. – Deliverables

The following table lists all *Deliverables* submitted to the Plaintiffs by the City (or in conjunction with Defendants) during the reporting period, and includes a brief description of the work performed by the City pursuant to submittal of the required *Deliverable*:

**Table 3.1 – List of Deliverables**

Deliverable	Description of Work	Date of Submittal	Comments
<b>Annual Report FY19/20</b>	Provided a technical report of the status of completion of all mandated I&I reduction and SSO prevention work; analysis of program results; and assessment of the City’s compliance with the CWA/Porter-Cologne.	9/30/20	None.
<b>Response to RTSP Annual Satellite Notification FY19-20</b>	Performed technical evaluation to determine all sources of I/rI that the City designated as Linear High Priority, Non-Linear High Priority, or Private High-Priority Source(s).	12/18/20	None.
<b>Regional Standards Update</b>	Coordinated with EBMUD and Satellite agencies to modify and update the regional design standards.	6/30/21	None

#### **Section 4. – Known Non-Compliance**

With the exception of the Category 1 sewer system overflows identified in *Table A – Summary of SSO Events for FY20-21* found in Appendix A, there were no other known instances of non-compliance with this Consent Decree for the reporting period.

## Section 5 – Recommended Changes to Work

The City proposes modifications to the *Work/Deliverables* identified in Section XII.C.93. – FOG Control, as follows:

**Table 5.1 - Proposed Changes to Work**

Deliverable	Description of Work Performed	Proposed Change
<b>Implementation of FOG Control Program</b>	Provide resource(s) and coordination for EBMUD’s FOG Program public awareness/outreach campaign.	Suspend formal coordination with EBMUD’s public awareness/outreach campaign. Oakland to implement a FOG Reduction public awareness/outreach campaign targeted to FSEs and single/multi-family dwelling units.
<b>Coordinate EBMUD FOG activities in Oakland</b>	Provide FOG-related SSO and/or field observation information to EBMUD for FSE investigation.	Suspend provision of FOG-related SSO and/or field observation information to EBMUD for investigation.
<b>FOG Investigation(s)</b>	Perform post-SSO inspection to determine if failure was caused by FOG.	<i>No change.</i>
<b>FOG Control Enforcement</b>	Ensure that FSEs implement all necessary FOG abatement measures (i.e. install/maintain GRDs, perform recommended BMPs,	<i>No change.</i>

As a result of the termination of the Technical Advisory Board (TAB), and replacement with the Collection System Technical Advisory Committee (CSTAC) as its successor body for regional inter-agency coordination, the City has discontinued formal collaboration with EBMUD in implementation of EBMUD’s Regional Fats, Oils, and Grease Control Program and coordination of EBMUD’s FOG-related activity in Oakland. Under the recommended changes the City will assume sole management of FOG abatement activity in its service area, including all public awareness/outreach activity, inspections, enforcement, and mitigation of FOG-related discharges into the wastewater collection system.

The City intends to maintain informal collaboration with EBMUD in support of its regional FOG control efforts – primarily via residential and/or commercial referrals to EBMUD’s Environmental Services

Hotline for information and guidance on proper FOG disposal.

## Section 6 – Sanitary Sewer Overflow (SSO) Report

The City’s SSO Reduction program showed modest overall improvement from the previous fiscal year reporting period. Disposal of non-dispersible wipes into the collection system – which increased substantially at the onset of the regional shelter-at-home order – continued to impact efforts to reduce the total number of overflows. Combined inspection and maintenance activity, and expedited repair of problem pipes, resulted in a five percent (-5%) reduction in the total number of overflow events that occurred during the current reporting period, and a twenty-one percent (-21%) and twenty-three percent (-23%) reduction in both the total estimated volume of untreated wastewater discharged and the volume that discharge that reached surface water, respectively.

Approximately fifteen percent (15%) of the SSOs occurred at locations where an overflow had been reported within the previous three (3) years. Each location was subsequently assigned to a more frequent maintenance cycle, and in some instances, was recommended for long-term preventive strategies such as chemical root control maintenance or complete line replacement.

**Table 6.1 – Repeat SSO Locations**

Date	Location	Pipe ID	Cause	Measures to Prevent SSO
7/29/20	Olive St	2376	Debris - Wipes	On 6 month PM list
8/22/20	Rawson St	7779	Debris - Wipes	On 3 month PM list; CIP request due to sag and fractures
7/17/20	Westfield Way	14242	Root intrusion	On 6 month PM list, recommend for root foam treatment
9/26/20	Greenly Dr	6645	Debris - Rags	On 3 month PM list; CIP request due to fractures
9/29/2020	Bancroft Av	2309	Debris - Rags	On 12 month PM list
12/15/20	Parkridge	12516	Pump Station Failure	Repaired by contractor
1/13/20	Winthrop St & Shone St	6795	Root intrusion	On 3 month PM list, recommend for root foam treatment
11/3/20, 1/6/21	63rd Ave	7862	Debris - Wipes Debris - Wipes	On 3 month PM list
2/24/21	Portal Ave	20423	Root intrusion	On 6 month PM list
2/13/21	Claremont Ave	31208	Debris - General	On 6 month PM list
3/6/21	64th Ave & Camden St	6318	Debris - Wipes	On 3 month PM list
3/7/21	E16th St	7432	FOG	On 3 month PM list; CIP request to upgrade from 6 inch to 8 inch pipe
1/4/21, 4/9/21, 4/29/21	Scarborough Dr	23628, 23629	Debris - Wipes, Vandalism, Debris - Wipes	On 12 month PM list
3/11/21, 5/3/21	Wee Blythen Redwood Rd	16452	Root intrusion, Other: rocks in lamp hole	On 6 month PM list, recommend for root foam treatment

An additional, seven (7) overflow events occurred at locations in which the pipeline had previously been rehabilitated. In four of the seven locations (60%) it appears that an attempt to eliminate inflow/infiltration by way of rehab, coupled with reduced flow in response to regional drought and increased disposal of non-dispersible wipes (including mops, toilet scrubbers, and other convenience-cleaning products), may have inadvertently contributed to adverse conditions that led to excessive FOG and/or debris buildup – which in turn resulted in blockages in the system. As an immediate corrective measure, these locations were added to a more frequent maintenance cycle. However, additional system evaluation and post-rehab analysis to identify and/or predict potential trouble spots is under development, and once fully designed and implemented, should eliminate preventable SSOs from occurring in previously rehabbed pipelines.

**Table 6.2 – Rehabbed Pipelines Where SSOs Occurred**

Date	Location	Pipe ID	Rehab Year	Cause	Measure(s) to prevent SSO
7/23/20	Ascot Dr	22040	2011	Debris-Wipes	On 6 Month PM list, scheduled for spot repair.
9/10/20	69th Ave	3836	2021	FOG	On 6 Month PM list
11/5/20	Girvin Dr	25033	2012	Debris-Wipes	On 3 Month PM list
1/8/21	Saroni Dr	26703	2012	Root intrusion	On 6 Month PM list; recommend for root foam treatment.
2/24/21	MacArthur Blvd	7942	2019	Root intrusion	On 6 Month PM list; recommend for root foam treatment.
4/18/21	Greenwood Ave	17993	2017	Root intrusion	On 6 Month PM list; recommend for root foam treatment; CIP request to upgrade from 6 inch to 8 inch pipe.
4/29/21	Rosedale Ave	8850	2015	FOG	On 6 Month PM list

A complete list of SSO events for the current reporting period (FY20-21) can be found in *Table A* of Appendix A.

## Section 7 – Private Sewer Lateral (PSL) Program

The City continued its participation in EBMUD’s Regional PSL Program during the entire duration of the reporting period, FY20-21, and does not anticipate or propose any changes to its participation, at this time.

The City finalized three-hundred twenty-seven (327) building permits that required certificates of occupancy for construction or remodeling work in excess of one-hundred thousand dollars (\$100,000). Of the three-hundred twenty-seven (327) building permits issued, three-hundred twenty-two (322), or ninety-eight and one-half percent (98.5%), received Compliance Certificates issued by EBMUD. The ratio of City-issued permits to EBMUD-issued certificates is well within the twenty-five percent (25%) maximum percent differential for certificated to non-certificated permits issued by the City during the reporting period, as required by the Consent Decree.

Table 7.1 summarizes the City’s compliance with Paragraph 84.c of the Consent Decree:

**Table 7.1 – Permits Finalized w/ EBMUD PSL Certificate of Compliance**

Fiscal Year	# Permits Finalized	# w/ PSL Certificate	# w/out PSL Certificate
FY 2020-21	327	322	5

## **Section 8 – Implementation of Asset Management Implementation Plan (AMIP)**

On October 31, 2014, the City submitted an updated AMIP to the EPA which had been revised to comply with this Consent Decree. The AMIP was consolidated with the City's Sewer System Management Plan (SSMP), as required by the General Waste Discharge Requirement Order No. 2006-0003 DWQ. The consolidated AMIP/SSMP document provided new maintenance, construction and rehabilitation schedules, as well as a revised financial plan. The City updated the SSMP portion of the AMIP/SSMP document in December 2019. No changes to the asset management plan were made in this update, and the City's consolidated AMIP/SSMP was in full implementation during the current reporting period. A summary of implementation of each element of the plan is included in Appendix B.

## Section 9. – Infiltration and Inflow Reduction Work

### 9.a. – Sewer Main Repair & Rehabilitation

The City of Oakland has rehabilitated 487,344 feet (91.3 miles) of Sewer Main. This exceeds the Consent Decree requirement to rehabilitate 475,200 feet (90 miles) by June 30, 2021. The City’s Sewer Main Rehabilitation Program is ahead of schedule as shown in Table 9a.1.

**Table 9.a.1. – Length of Sewer Mains Rehabilitated**

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement <sup>ii</sup>
FY 2013-14	131,653’ (24.9 miles)	131,653’ (24.9 miles)	-----
FY 2014-15	60,546’ (11.5 miles)	192,199’ (36.4 miles)	-----
FY 2015-16	71,751’ (13.6 miles)	263,950’ (50.0 miles)	158,400’ (30 miles)
FY 2016-17	58,964’ (11.2 miles)	322,914’ (61.2 miles)	221,760’ (42 miles)
FY 2017-18	59,433’ (11.2 miles)	382,347’ (72.4 miles)	285,120’ (54 miles)
FY 2018-19	40,995’ (7.8 miles)	423,342’ (80.2 miles)	348,480’ (66 miles)
FY 2019-20	39,230’ (7.4 miles)	462,572’ (87.6 miles)	411,840’ (78 miles)
FY 2020-21	19,536’ (3.7 miles)	487,344’ (91.3 miles)	475,200’ (90 miles)

<sup>ii</sup> Denotes cumulative total length of rehab completed beginning January 1, 2014.

In addition, to the rehabilitation work prescribed under Paragraph 83.a. of the Consent Decree, the City has rehabilitated a cumulative total of thirty-seven thousand, four-hundred eighty-eight linear feet (37,488 LF), or seven and one-tenth miles (7.1 mi.), of sewer main since the adoption date of the Consent Decree. The majority of the additional rehab work completed has been located in areas of the collection system outside of the sub-basins identified for priority rehabilitation in the Consent Decree (see Appendix H of the Consent Decree), and were in response to defects and/or deficiencies identified during routine condition assessment and/or sewer emergencies.

**Table 9.a.2. – Length of Sewer Mains Rehabilitated (Supplemental)**

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement
FY 2014-15	6,485’ (1.2 miles)	6,485’ (1.2 miles)	5280’ (1 mile)
FY 2015-16	6,097’ (1.2 miles)	12,582’ (2.4 miles)	10,560’ (2 miles)
FY 2016-17	3,803’ (0.7 miles)	16,385’ (3.1 miles)	15,840’ (3 miles)
FY 2017-18	4,805’ (0.9 miles)	21,190’ (4.0 miles)	21,120’ (4 miles)
FY 2018-19	5,506’ (1.1 miles) ***	26,696’ (5.1 miles)	26,400’ (5 miles)

Fiscal Year	Mains Rehabilitated	Cumulative Total	CD Requirement
FY 2019-20	5,280 (1.0 miles)	31,976' (6.1 miles)	31,680 (6 miles)
FY 2020-21	5,280 (1.0 miles)	37,488' (7.1 miles)	36,960' (7 miles)

In conjunction with the rehab work performed, one-hundred-eleven (111) maintenance holes were rehabbed, as well.

No abandoned service laterals were re-connected to any rehabbed sewer main.

The total expenditure for sewer main rehabilitation work completed during the current reporting period was six million, nine-hundred fifty thousand, seven-hundred ninety-three dollars (\$6,950,793). The City budgeted nineteen million, six-hundred forty-seven thousand, six-hundred forty-six (\$19,647,464) dollars for capital improvements projects for FY2020-2021 – an increase of three million, one-hundred thirty thousand (\$3.13M) dollars from the previous budget period. Capital improvement projects covered within this budgeted amount included rehabilitating or replacement of sewer mains, lower laterals, and ancillary sewer structures. The budgeted amount was intended to cover hard construction costs, as well as soft costs associated with design and construction management of sewer rehabilitation projects.

The impact of COVID-19 on the City's sanitary sewer rehabilitation design and construction work has been significant during FY20-21. The City experienced considerable delays and interruptions to multiple phases of project development, contract bid/award, and construction. Consequently, several sewer rehabilitation projects were postponed until FY21-22. Six (6) sewer main rehabilitation projects are scheduled for FY21-22, and are listed as follows:

**Table 9.a.3. – Planned Sewer Rehab Projects, FY21-22**

Project No.	Sub-Basin	Status	Est. Cost	Mileage	Est. Completion
1003201	81-201	construction	\$3.2M	2.9	FY22
1004807	83-102	bid/award	\$3.5M	2.7	FY22
1004810	85-202	bid/award	\$5.8M	4.5	FY22
1004806	83-001	design	\$6.7M	4.4	FY23
1004845	82-005	design	\$10M	7.2	FY23
1005411	City-wide	construction	\$5M	1.0	FY23
Total			\$34.1M	22.7	

No revisions to Appendix H were made during this reporting period.

## 9.b. – Sewer Main Inspection & Condition Assessment

**Table 9.b.1. – Sewer Main Inspection w/ Completed Condition Assessment**

Fiscal Year	Mains Assessed	Cumulative Total	CD Requirement
FY 2013-14i	182,935' (35 miles)	182,935' (35 miles)	242,880' (46 miles)
FY 2014-15	618,991' (117 miles)	801,926' (152 miles)	728,640' (138 miles)
FY 2015-16	619,913' (117 miles)	1,408,769' (267 miles)	1,214,400' (230 miles)
FY 2016-17	502,816' (95 miles)	1,911,585' (362 miles)	1,700,160' (322 miles)

FY 2017-18	441,361' (84 miles)	2,352,943' (446 miles)	2,185,920' (414 miles)
FY 2018-19	495,639' (94 miles)	2,851,200' (540 miles)	2,671,680' (506 miles)
FY 2019-20	523,384' (99 miles)	3,426,535' (649 miles)	3,157,440' (598 miles)
FY 2020-21	496,968' (94 miles)	3,921,804' (743 miles)	3,643,200' (690 miles)

A total of four-hundred ten (410) maintenance-hole inspections were performed during the reporting period. A visual inspection of the barrel and base of each maintenance hole was performed and documented on a digital inspection form stored within the City's computerized maintenance management system.

<sup>i</sup> Six months, January 1, 2014 – June 30, 2014.

### 9.c. – Regional Design Standards

For the duration of the reporting period, the City maintained conformance with the Regional Standards for the design, repair, and rehabilitation of its sewer mains, maintenance holes, and laterals during the reporting period. The standards were developed by the Regional Standards Committee (RSC) between May 2015 and June 2016, and have been in full implementation since July 1, 2016.

In addition, the City collaborated with the Regional Standards Committee (RSC) to review the effectiveness of the Regional Standards and develop revisions and improvements, accordingly.

On June 30, 2021, Humphrey Consulting, on behalf of the Defendants, submitted the updated Regional Standards to EPA/Water Board and Plaintiff-Intervenors for review and approval, as required.

### 9.d. – PSL Inspection, Repair, & Rehabilitation

#### Private Sewer Laterals

City personnel identified one-hundred seventy-two (172) defective private sewer laterals during the current reporting period. The City, as a practice, immediately notifies residents of defective sewer laterals by placing a door hanger notice (see Figure C-3, Appendix C) at the affected property. In addition, a secondary notice is sent to the affected property via certified mail within ninety (90) days of identification of the defect. In instances where repair work is confirmed to have been initiated or completed within ninety (90) days, a secondary notice may not be sent to the property owner.

No administrative enforcement actions were taken against property owners for defective sewer laterals.

A sample of the notification(s) of enforcement action is included in Appendix C.

**Table 9.d.1. – Defective Sewer Laterals**

No. of Defective PSLs FY20-21	No. of Notices To Abate	No. of Administrative Enforcement Actions
172	172	0

#### Public Sewer Laterals

The City completed sewer lateral rehabilitations at ten (10) locations identified in Appendix H-1 of the Consent Decree. The total number of locations where City-owned sewer laterals have been repaired or rehabilitated is at ninety-five (95), and the City has completed inspection and/or repair of all designated

City-owned facilities ahead of the September 21, 2024, completion date specified in the Consent Decree. A list of Oakland-owned sewer laterals is included in Appendix E.

The City did not identify any defective sewer laterals owned by the federal government, the state, or any other public entity, during the reporting period.

#### City of Oakland/EBMUD Sewer Lateral Outreach and Education

The City continued to assist EBMUD with outreach and public education of the District's PSL program by posting links to information containing key messaging concerning the importance of identifying and repairing or replacing defective laterals and adhering to permit and certification guidelines, on the City's public website.

#### Lower Sewer Laterals

The City repaired or rehabilitated five-hundred five (505) lower sewer laterals as part of the work performed in its Sewer Main Rehabilitation project(s), and reconnected all five-hundred twelve (512) sewer laterals encountered during the course of the projects – including sewer laterals located within easements.

#### **9.e. – RTSP Implementation**

The City received the Annual Satellite Notification FY19-20 report from EBMUD on/about September 24, 2020. The report identified eleven (11) public sources of inflow/infiltration and eighty-eight private sources of inflow/infiltration. The City has determined that none of the locations are high-priority sources of inflow/infiltration. The City provided its response to EBMUD on/around December 18, 2020.

In addition, and at the request of EBMUD, the City provided pipe and maintenance hole cleaning at select locations within the City's collection system, prior to scheduled monitoring for the RTSP.

A cumulative list of all sources designated as Linear High-Priority Sources, details related to each designated source, and the work pursued in elimination of the designated source can be found in the *City of Oakland 2019-20 RTSP Notification Response*, dated December 18, 2020.

## Section 10. – SSO Reduction Work

### 10.a. – Capacity Assurance

The City performed level monitoring at select locations listed in Paragraph 89.a. of the Consent Decree. Trigger points were set at 12 inches below the rim of the maintenance hole.

There was one trigger event during the reporting period, which occurred at Maybelle Avenue and Masterson Street. All flows were contained within the system and no SSO was reported as a result of the high water-level triggering event. The trigger appeared to have resulted from a partial blockage downstream caused by FOG buildup and was not capacity related.

Sewer Maintenance personnel performed emergency maintenance to clear the blockage, to prevent on SSO and reset the level-monitor alarm at the location.

There were no capacity-related SSOs reported during the reporting period.

A list of sewer segments improved pursuant to subparagraph 89.a., during the reporting period, is summarized in Table 10.a.1. below:

**Table 10.a.1. – Level-Monitoring Location for Capacity Assurance**

Location	Status	Date	Assessment
Maybelle Ave and Masterson St	Rehab complete	May 2019	On-going
Trestle Glen Rd at Creek Rd	Rehab complete	December 2018	Concluded
Park Blvd and Spruce St	Rehab complete	March 2019	Concluded
Maybelle Ave and Porter St	Rehab in process	-	On-going

Pursuant to subparagraph 89.d. of the Consent Decree, the following locations met the post-rehab assessment criteria that would enable the discontinuance of level-monitoring capacity assurance:

- San Pablo Avenue at 60th Street
- San Pablo Avenue at 62nd Street
- East 18th Avenue at 4th Avenue
- Grand Avenue and Harrison Street
- Park Blvd. and Spruce Street
- Trestle Glen Road and Creed Road

### 10b. – Post-SSO Inspection(s)

Post-SSO inspection (via CCTV) was performed immediately downstream of each SSO location that occurred during the reporting period, for the purpose of determining the most probable cause of that SSO.

**10c. – Acute Defects**

The City identified nine (9) acute defects during the current reporting period. Each defect was repaired/rehabilitated within one year of identification as shown in Table 10.c.1 below.

A sewer defect is identified as a suspected Acute Defect if any of the following three conditions are met:

- The burial depth of the sewer structure is less than five (5) feet;
- The available freeboard of the sewer structure is less than five (5) feet (based on most current hydraulic modeling); and
- The conveyance area of the sewer structure is blocked greater than thirty percent (30%).

Upon engineering review of the suspected list, the acute defect will be categorized accordingly.

**Table 10.c.1. – Defective Sewer Laterals**

No.	Facility ID	Identification Date	Repair Date	Duration (days)
1	8890	5/3/2021	5/4/2021	1
2	23195	2/1/2021	6/28/2021	147
3	7552	6/24/2020	6/24/21	365
4	21687	9/22/2020	9/22/20	0
5	22940	11/03/2020	6/30/21	239
6	2049	01/07/2021	4/16/21	99
7	29209	7/07/2020	8/12/20	36
8	3887	07/02/2020	7/24/20	22
9	5848	03/12/2021	3/23/21	11

**10.d. – Pipe Maintenance**

A summary of pipeline maintenance work completed during the duration of the Consent Decree is presented in Table(s) 10.d.1. – 10.d.3.

**Table 10.d.1. – Total Sewer Pipes Cleaned Once (Unique Footage)**

Fiscal Year	MLX Cleaned*	Cumulative Total**	CD Requirement
FY 2013-14	544,051' (103 miles)	2,085,969' (395 miles)	1,900,800' (360 miles)
FY 2014-15	778,526' (147 miles)	2,864,495' (543 miles)	2,640,000' (500 miles)
FY 2015-16	941,179' (178 miles)	3,777,533' (715 miles)	3,379,200' (640 miles)
FY 2016-17	625,001' (118 miles)	4,402,534' (834 miles)	4,118,400' (780 miles)
FY2017-18	501,139' (95 miles)	4,903,673' (929 miles)	4,903,673' (929 miles)
<b>Reset to zero on July 1, 2018</b>			
FY2018-19	998,933' (189 miles)	998,933' (189 miles)	971,520' (184 miles)
FY2019-20	1,054,844' (200 miles)	2,059,671' (390 miles)	1,943,040' (368 miles)
FY2020-21	1,022,715' (194 miles)	3,082,386' (584 miles)	2,914,560' (552 miles)

Fiscal Year	MLX Cleaned*	Cumulative Total**	CD Requirement
Since Effective Date	6,466,388 LF (1,224 miles)	NA	NA

**Table 10.d.2. – Total Sewer Pipes Cleaned More Than Once (Non-Unique Footage)**

Fiscal Year	MLX Cleaned	Cumulative Total	CD Requirement
FY14-15	379,663' (72 miles)	1,508,005' (286 miles)	NA
FY15-16	411,287' (78 miles)	1,960,753' (371 miles)	NA
FY16-17	325,672' (62 miles)	2,269,887' (430 miles)	NA
FY17-18	281,057' (53 miles)	2,544,909' (482 miles)	NA
FY18-19	258,786' (49 miles)	2,892,629' (548 miles)	NA
FY19-20	373,275' (71 miles)	3,350,316' (635 miles)	NA
FY20-21	407,022' (77 miles)	3,757,338' (712 miles)	NA

**Table 10.d.3. – Total Sewer Pipes Cleaned (Combined)**

Fiscal Year	MLX Cleaned	Cumulative Total*	CD Requirement
FY 2014-15	2,017,932' (382 miles)	6,486,856' (1,229 miles)	n/a
FY 2015-16 **	2,361,494' (447 miles)	8,799,050.32' (1,666 miles)	n/a
FY 2016-17 **	1,854,591 (351 miles)	10,656,915' (2,018 miles)	n/a
FY 2017-18 **	1,670,390' (316 miles)	12,355,381' (2,340 miles)	n/a
<b>Reset to zero on July 1, 2018 per subparagraph 196.d.iii.</b>			
FY 2018-19 **	1,383,101' (262 miles)	1,383,101' (262 miles)	n/a
FY 2019-20 **	2,017,506' (382 miles)	3,410,946' (646 miles)	n/a
FY 2020-21 **	2,253,231' (427 miles)	5,664,177' (1073 miles)	n/a

### 10.e. – Root Control Program

The City has been treating sanitary sewer mains to reduce instances of excessive root intrusion. The root-foaming program uses an herbicide which penetrates root cell walls and causes them to decay and die. This treatment destroys roots that have infiltrated sewer mains that can cause stoppages and damages.

From 2011 to 2015, the root-cleaning program selected pipes for treatment based on a non-targeted, basin-wide approach. Beginning in FY 2015-16, the City revised its pipe selection process to more efficiently target pipes and avoid treating pipes known to be clear of roots. Selection of pipes within the system for root foam treatment is based primarily on observation of roots from CCTV inspections. Other selection criteria include:

- Priority is given to pipes within easements.
- All pipes in a sub-basin are treated if a significant number of pipes are affected by root intrusion

as indicated in CCTV inspections.

- Pipes will not be selected for root foaming if the pipe has been rehabilitated within the last five years.
- Pipes will not be selected for root foaming if the pipe will be rehabilitated within five years or the pipe resides in the hot spot list.

The City had cumulatively root foamed 2,168,496 feet (410.7 miles) of Sewer Mains, which exceeds the Consent Decree requirement of 2,112,000 feet (400 miles). A Results of the City’s root-cleaning program is shown below:

**Table 10.e.1. – Chemical Root Control**

Fiscal Year	Mains Assessed		Cumulative Total		CD Requirement	
FY 2013-14	304,811’	(57.7 miles)	304,811’	(57.7 miles)	264,000’	(50 miles)
FY 2014-15	352,176’	(66.7 miles)	656,987’	(124.4 miles)	528,000’	(100 miles)
FY 2015-16	146,784’	(27.8 miles)	803,771’	(152.2 miles)	792,000’	(150 miles)
FY 2016-17	423,361’	(80.2 miles)	1,227,132’	(232.4 miles)	1,056,000’	(200 miles)
FY 2017-18	100,525’	(19.0 miles)	1,327,657’	(251.5 miles)	1,320,000’	(250 miles)
FY 2018-19	324,192’	(61.4 miles)	1,651,849’	(312.9 miles)	1,584,000’	(300 miles)
FY 2019-20	208,032’	(39.4 miles)	1,859,881’	(352.3 miles)	1,848,000’	(350 miles)
FY 2020-21	307,824’	(58.3.0 miles)	2,168,496’	(410.7 miles)	2,112,000’	(400 miles)

**10.f. – Hotspot Maintenance Program**

The City’s High Frequency cleaning program contains four-hundred eighty-four thousand, eight-hundred seventy linear feet (484,870 LF) of sewer pipe. These pipelines are cleaned on three-month, six-month, or twelve-month cycles. The criteria for placing a pipeline on a high-frequency maintenance program includes all pipelines in which a repeat overflow has occurred; where excessive root intrusion, FOG, or acute defects have been noted during condition assessment; and if other service complaints have been received (i.e. odor and/or vector issues). Approximately six-hundred ninety thousand linear feet (690,479 LF), or one-hundred thirty-one miles (131 mi.) of sewer pipe were cleaned as part of the High Frequency cleaning program during the reporting period.

**10.g. – FOG Abatement Program**

The City attempts to control FOG in the collection system by placing all pipelines where excessive FOG loading has been identified on a modified maintenance schedule. The pipelines are placed on a three-month, six-month, or twelve-month maintenance schedule, and are hydro-flushed with a chemical degreasing agent, when possible.

In addition, the City has implemented a public awareness campaign to advise residential users to not discharge FOG into residential plumbing. The advisement(s) are administered by way of billing insert

flyers and social media postings.

Due to COVID-19 Prevention measures taken by the City, all FSE inspection activity was suspended during the current reporting period. FSE site visits will re-commence, or a web-based self-reporting portal for FSEs currently under development will be implemented, by January 2022.

Thirty-two (32) SSOs that occurred during the current reporting period were determined to be caused by FOG. They are listed in *Table A – Summary of SSO Events for FY20-21* included in Appendix A.

#### **10h. – Pump Station Renovation Project(s)**

On July 30, 2020, the City received bids on pump station upgrade projects for the Denton Place, Parkridge Drive, and Skyline Boulevard pump stations. The projects represent the remaining items needed to complete improvements described in the *Pump Station Reliability Plan*, as approved by the EPA in March 2011. Rehabilitation of these three pump stations commenced during the current reporting period and is anticipated to be completed in FY21-22. The City expects to meet the required due date of October 2022 to complete all pump station renovations.

## Appendix A – List of Sanitary Sewer Overflows (SSOs)

**Table A – Summary of SSO Events for FY20-21**

CIWQS ID	SSO Start Date	SSO Start Time	SSO End Date	SSO End Time	Volume Discharged	Volume Recovered	Volume Not Recovered	Location of Discharge	LAT	LON	Cause	Impacted Waterbody	SSO+	MLX Rehab
867780	7/3/20	17:00	7/3/20	18:05	10	10	0	Brentwood RD	37.81398	-122.20619	Debris-Wipes/Non-dispersible	None		
867926	7/10/20	19:00	7/10/20	20:35	95	95	0	Quigley ST	37.80435	-122.27116	Debris-Wipes/Non-dispersible	None		
867948	7/15/20	7:22	7/15/20	10:20	890	0	890	Delmont AVE	37.77739	-122.17272	Root Intrusion	Chimes Creek		
867967	7/16/20	19:00	7/16/20	21:25	290	290	0	35th AVE & Quigley ST	37.79267	-122.20239	Debris-Rags	None		
867986	7/17/20	18:40	7/17/20	19:30	100	95	0	Westfield WAY	37.79748	-122.18008	Root Intrusion	None	Yes	
868108	7/22/20	11:06	7/22/20	13:15	8	0	0	Randolph AVE	37.80644	-122.22269	Debris-General	None		
868129	7/20/20	22:41	7/27/20	1:05	632	632	0	Fruitvale AVE	37.77876	-122.2258	Debris-General	None		
868131	7/24/20	19:05	7/24/20	21:00	15	10	0	90TH AVE	37.7549	-122.16205	Debris-General	None		
868170	7/23/20	12:00	7/23/20	16:05	245	0	0	Ascot DR	37.81913	-122.19635	Debris-Wipes/Non-dispersible	None		Yes
868244	7/29/20	14:26	7/29/20	16:20	436	436	0	Olive ST	37.74855	-122.16505	Debris-Rags	None	Yes	
868352	8/6/20	11:20	8/6/20	12:23	378	10	368	Lundholm AVE	37.80435	-122.27116	Root Intrusion	Lion Creek		
868405	8/9/20	8:00	8/9/20	10:00	360	360	0	Skyline BLVD	37.79569	-122.16061	Debris-General	None		
868454	8/11/20	15:00	8/11/20	17:30	250	250	0	Congress AVE	37.77801	-122.20358	Grease Deposition (FOG)	None		
868595	8/24/20	6:15	8/24/20	8:15	60	60	0	Harrison ST	37.7947	-122.27228	Grease Deposition (FOG)	None		
868664	8/21/20	10:20	8/21/20	16:40	13	0	0	Rawson ST	37.77821	-122.19525	Debris-General	None	Yes	
868679	8/26/20	18:00	8/26/20	21:30	440	396	0	Thornhill DR	37.8402	-122.20203	Root Intrusion	None		
868683	8/27/20	11:00	8/27/20	12:57	585	300	285	Alvarado RD	37.85829	-122.23819	Root Intrusion	Vicente Creek		
868988	9/9/20	21:00	9/10/20	13:00	480	480	0	69th AVE	37.75924	-122.19204	Grease Deposition (FOG)	None		Yes
868997	9/11/20	14:15	9/11/20	15:45	15	0	0	Alvarado DR	37.85775	-122.23849	Root Intrusion	None		
869075	8/26/20	12:30	9/2/20	10:00	55	0	0	Broadway	37.84071	-122.24875	Root Intrusion	None		
869390	9/20/20	13:45	9/20/20	18:40	50	50	0	Ziegler AVE	37.74897	-122.12672	Root Intrusion	None		
869579	10/8/20	20:00	10/8/20	22:20	420	420	0	Stella ST	37.74813	-122.14314	Grease Deposition (FOG)	None		
869580	10/7/20	0:00	10/7/20	4:00	20	10	0	Sextus RD	37.73376	-122.19449	Grease Deposition (FOG)	None		
869657	10/10/20	8:00	10/10/20	10:10	240	240	0	68th AVE	37.76905	-122.17926	Debris-Rags	None		
869658	10/11/20	19:15	10/11/20	22:15	540	500	40	LaSalle AVE	37.82649	-122.21043	Grease Deposition (FOG)	Sausal Creek		
869687	9/27/20	17:00	9/27/20	18:30	100	80	0	Bancroft AVE	37.74937	-122.16199	Grease Deposition (FOG)	None	Yes	
869690	10/7/20	20:00	10/7/20	22:20	420	420	0	Stella ST	37.74813	-122.14314	Grease Deposition (FOG)	None		
869761	10/16/20	18:40	10/16/20	21:10	300	100	0	Sheldon ST	37.74565	-122.14787	Root Intrusion	None		
869853	10/16/20	8:51	10/16/20	10:41	180	5	0	Jordan RD	37.80584	-122.19556	Root Intrusion	None		
869901	10/20/20	9:01	10/20/20	11:25	144	144	0	12th AVE	37.79089	-122.24724	Debris-General	None		
869979	10/27/20	7:30	10/27/20	9:00	90	90	0	Lakeshore AVE	37.80887	-122.24735	Grease Deposition (FOG)	None		
869997	10/27/20	16:00	10/27/20	18:00	16	16	0	47th AVE	37.83571	-122.27277	Debris-General	None		
870131	10/30/20	6:05	10/30/20	7:05	30	30	0	Clemens RD	37.81018	-122.20908	Debris-Wipes/Non-dispersible	None		
870245	11/3/20	13:40	11/3/20	17:40	60	60	0	63rd AVE	37.77415	-122.18079	Debris-Wipes/Non-dispersible	None	Yes	
870402	10/12/20	13:55	10/12/20	14:15	450	0	0	Stella ST	37.74824	-122.14376	Root Intrusion	None		
870518	11/14/20	10:00	11/14/20	12:00	50	50	0	Eastwood CT	37.83552	-122.18682	Root Intrusion	None		
870595	10/28/20	10:00	10/30/20	13:00	287	0	0	Rose AVE	37.82617	-122.24795	Root Intrusion	None		
870701	11/5/20	15:30	11/5/20	16:30	15	0	0	Girvin DR	37.82988	-122.19383	Debris-Wipes/Non-dispersible	None		Yes
870760	12/1/20	12:00	12/1/20	13:45	530	400	130	Webster ST	37.79657	-122.27277	Grease Deposition (FOG)	San Francisco Bay		
870796	11/19/20	8:30	11/19/20	9:30	60	60	0	College AVE & Broadway	37.83626	-122.25119	Debris-Wipes/Non-dispersible	None		
870948	12/11/20	8:30	12/11/20	11:00	150	150	0	Bancroft AVE	37.77161	-122.20284	Grease Deposition (FOG)	None		
871082	12/17/20	0:00	12/17/20	3:30	1050	0	1050	Franklin ST	37.79581	-122.27518	Grease Deposition (FOG)	None		
871111	12/14/20	14:15	12/14/20	15:30	4259	4259	0	14th ST	37.80565	-122.27423	Grease Deposition (FOG)	None		
871122	12/9/20	20:30	12/9/20	23:00	150	150	0	Parkridge DR	37.79197	-122.14437	Pump Station Failure-Mechanical	None	Yes	
871301	12/27/20	12:30	12/27/20	14:00	5500	0	5500	Wilda AVE	37.82363	-122.25225	Debris-Rags	Glean Echo Creek		
871355	12/30/20	8:30	12/30/20	11:33	3660	700	2960	Wesley AVE	37.80415	-122.25057	Grease Deposition (FOG)	Lake Merritt		
871450	1/3/21	18:00	1/6/21	13:30	2244	2244	0	63rd AVE	37.77379	-122.18123	Debris-General	None	Yes	
871452	12/29/20	17:24	1/4/21	17:30	66041	0	66041	Scarborough RD	37.82415	-122.2003	Debris-General	Shepard Creek.	Yes	
871455	1/5/21	14:53	1/5/21	16:15	10	10	0	74th AVE	37.76584	-122.17535	Grease Deposition (FOG)	None		
871466	1/5/21	11:00	1/5/21	16:42	13680	80	13600	Brookpark RD	37.79406	-122.15483	Root Intrusion	Redwood Creek		
871473	1/7/21	15:30	1/7/21	20:00	20	20	0	Park LN	37.81519	-122.23146	Debris-Wipes/Non-dispersible	None		
871474	1/5/21	18:00	1/6/21	11:00	1020	0	20	Colgett DR	37.79982	-122.17778	Root Intrusion	None		
871476	1/5/21	13:45	1/5/21	22:00	990	300	0	Caldecott LN	37.85713	-122.22049	Debris-Rags	None		
871485	1/7/21	13:50	1/7/21	16:30	10	10	0	Reinhardt DR	37.79371	-122.18487	Debris-General	None		
871490	1/10/21	11:00	1/10/21	17:00	1080	200	0	Tiffin RD	37.80901	-122.21023	Root Intrusion	None		
871541	1/9/21	14:30	1/9/21	16:00	500	500	0	Skyline BLVD	37.79691	-122.16144	Root Intrusion	None		
871561	1/8/21	7:15	1/8/21	10:00	165	0	0	Saroni DR	37.83531	-122.19862	Root Intrusion	None		Yes

CIWQS ID	SSO Start Date	SSO Start Time	SSO End Date	SSO End Time	Volume Discharged	Volume Recovered	Volume Not Recovered	Location of Discharge	LAT	LON	Cause	Impacted Waterbody	SSO+	MLX Rehab
871564	1/13/21	11:46	1/13/21	13:45	119	40	0	Winthrop ST	37.76923	-122.15689	Root Intrusion	None	Yes	
872166	2/4/21	11:39	2/4/21	14:16	1550	1550	0	Mountain BLVD	37.82946	-122.21094	Root Intrusion	None		
872188	2/6/21	13:45	2/6/21	14:45	25	25	0	Dunsmuir AVE	37.79563	-122.18895	Root Intrusion	None		
872222	1/16/21	17:00	1/16/21	18:45	10	10	0	Skylne BLVD	37.83088	-122.18762	Grease Deposition (FOG)	None		
872285	2/13/21	10:30	2/13/21	14:00	2100	700	1400	Claremont AVE	37.86173	-122.24015	Root Intrusion	San Francisco Bay	Yes	
872349	2/17/21	11:00	2/17/21	13:30	6	6	0	Bridge AVE	37.7788	-122.21883	Grease Deposition (FOG)	None		
872413	1/28/21	11:35	1/28/21	13:55	420	420	0	Cross RD	37.80435	-122.27116	Debris-Rags	None		
872415	2/19/21	16:30	2/21/21	20:30	11340	0	11340	Westmoorland DR	37.85996	-122.22395	Root Intrusion	San Francisco Bay		
872442	2/11/21	9:24	2/11/21	12:55	211	0	0	Sterling DR	37.76776	-122.15769	Root Intrusion	None		
872576	2/25/21	10:20	2/25/21	13:33	7	7	0	Estates DR	37.82052	-122.21107	Root Intrusion	None		
872668	2/24/21	8:30	2/24/21	13:30	300	25	0	Portal AVE	37.81458	-122.2308	Root Intrusion	None	Yes	
872669	2/22/21	14:00	2/22/21	19:00	9	9	0	Mountain BLVD	37.83114	-122.2124	Root Intrusion	None		
872677	2/17/21	0:00	2/17/21	11:50	8440	8440	0	Broadway	37.81061	-122.26688	Grease Deposition (FOG)	None		
872773	3/6/21	8:00	3/6/21	10:30	30	30	0	Mather ST	37.83237	-122.25229	Root Intrusion	None		
872775	3/7/21	17:00	3/7/21	19:30	45	45	0	E16th ST	37.77407	-122.21527	Grease Deposition (FOG)	None	Yes	
872781	3/6/21	13:20	3/6/21	14:05	15	15	0	64th AVE	37.76933	-122.1861	Debris-Rags	None	Yes	
872829	2/20/21	14:00	2/20/21	21:30	36	0	0	Harper ST	37.78444	-122.21843	Debris-General	None		
872856	3/11/21	11:45	3/11/21	17:55	11100	0	0	Wee Blythen	37.8037	-122.16951	Grease Deposition (FOG)	None	Yes	
872902	2/24/21	12:00	2/24/21	16:30	270	20	0	Macarthur AVE	37.77737	-122.18423	Root Intrusion	None		Yes
872916	3/10/21	15:30	3/11/21	11:45	607	0	0	Wee Blythen	37.8037	-122.16951	Root Intrusion	None		
872923	3/10/21	10:30	3/10/21	13:00	1234	1134	0	8th ST	37.79912	-122.2706	Grease Deposition (FOG)	None		
873008	3/18/21	11:30	3/18/21	13:30	840	0	840	Redwood RD & Via Rialto ST	37.79726	-122.1735	Grease Deposition (FOG)	Horeshoe Creek		
873016	3/19/21	8:30	3/20/21	17:30	4338	0	4338	Chabot RD	37.85105	-122.24051	Pipe Structural Problem/Failure	None		
873045	3/21/21	18:00	3/21/21	23:15	134	0	0	Marlow DR	37.73726	-122.1363	Root Intrusion	None		
873047	3/21/21	16:30	3/21/21	21:30	300	300	0	2nd ST & Harrison ST	37.79465	-122.27275	Grease Deposition (FOG)	None		
873282	3/25/21	8:00	3/25/21	10:00	600	600	0	Colton BLVD	37.83187	-122.21076	Root Intrusion	None		
873296	3/30/21	12:40	3/30/21	14:30	110	110	0	E22nd ST	37.78575	-122.22409	Grease Deposition (FOG)	None		
873360	4/3/21	13:30	4/3/21	19:30	1800	0	1800	14th ST & Castro ST	37.80671	-122.27711	Grease Deposition (FOG)	Oakland Estuary		
873410	4/4/21	9:15	4/4/21	12:45	420	420	0	Whittle ST	37.80881	-122.20673	Root Intrusion	None		
873412	4/2/21	9:00	4/2/21	12:00	540	540	0	Santa Clara AVE	37.81312	-122.24904	Root Intrusion	None		
873416	4/1/21	12:00	4/1/21	12:45	72	72	0	Crescent ST	37.81342	-122.24988	Root Intrusion	None		
873425	1/27/21	11:30	1/27/21	16:15	285	0	0	Westview DR	37.85683	-122.23257	Root Intrusion	None		
873475	4/9/21	18:00	4/10/21	13:00	9800	0	9800	Scarborough DR	37.8242	-122.19964	Vandalism	Shepherd Creek	Yes	
873553	4/9/21	7:40	4/9/21	10:50	1000	650	0	Leimert BLVD	37.81301	-122.2081	Debris-Wipes/Non-Dispersables	None		
873555	4/12/21	9:44	4/12/21	12:45	543	0	0	Margarido DR	37.84737	-122.24352	Debris-Rags	None		
873586	4/12/21	9:30	4/12/21	9:40	40	10	0	Portal AVE	37.81458	-122.2308	Other (specify below)	None		
873662	4/18/21	9:00	4/18/21	10:20	200	200	0	Greenwood AVE	37.80758	-122.22357	Root Intrusion	None		Yes
873680	4/22/21	8:10	4/22/21	10:45	593	350	150	Alvarado RD	37.8612	-122.23763	Root Intrusion	Temescal Creek		
873713	4/25/21	13:34	4/25/21	15:45	88	88	0	Lawton AVE	37.8443	-122.24529	Root Intrusion	None		
873898	4/29/21	14:00	4/29/21	16:30	943	0	539	Scarborough DR	37.8242	-122.19964	Root Intrusion	Shepherd Creek	Yes	
873915	9/30/20	20:30	9/30/20	23:30	449	449	0	International BLVD	37.7474	-122.17243	Debris-Rags	None		
873933	4/29/21	14:00	4/30/21	12:00	2880	2880	0	Santa Rosa ST	37.81916	-122.2503	Debris-Wipes/Non-dispersible	None		
873960	3/9/21	10:00	3/9/21	11:00	25	25	0	Dorisa AVE	37.75575	-122.14753	Root Intrusion	None		
873966	5/3/21	18:10	5/3/21	21:50	527	527	0	Ridgeway AVE	37.82951	-122.25465	Grease Deposition (FOG)	None		
873967	5/3/21	20:20	5/3/21	22:45	468	468	0	Oak ST	37.79406	-122.268	Grease Deposition (FOG)	None		
873968	5/4/21	13:50	5/4/21	16:20	245	245	0	Forrest Hill AVE	37.80359	-122.21298	Debris-Wipes/Non-dispersible	None		
873969	5/3/21	12:09	5/3/21	17:00	873	0	0	Redwood RD	37.80003	-122.17067	Other (specify below)	None	Yes	
874020	4/29/21	17:00	4/29/21	20:15	47	10	0	Rosedale AVE	37.78041	-122.21039	Grease Deposition (FOG)	None		Yes
874022	5/9/21	18:23	5/9/21	20:23	43	43	0	Brookfield AVE	37.73292	-122.13726	Grease Deposition (FOG)	None		
874047	4/19/21	10:00	4/19/21	12:00	673	673	0	Canyon Oaks DR	37.7728	-122.14706	Debris-Wipes/Non-dispersible	None		
874066	5/11/21	13:56	5/11/21	16:30	21	11	0	Claremont AVE	37.86089	-122.24222	Debris-Rags	None		
874163	5/19/21	9:54	5/19/21	12:04	130	130	0	Hiller DR	37.85393	-122.23078	Grease Deposition (FOG)	None		
874211	5/23/21	11:30	5/23/21	16:00	270	270	0	56th Ave & International BLVD	37.76658	-122.20262	Grease Deposition (FOG)	None		
874325	5/26/21	8:06	5/26/21	10:30	179	179	0	Quigley ST	37.79083	-122.20105	Debris-Rags	None		
874328	5/18/21	16:00	5/21/21	18:45	130	0	0	Sage RD	37.7675	-122.13828	Grease Deposition (FOG)	None		
874348	5/25/21	16:33	5/25/21	18:30	210	0	0	Wood DR	37.8268	-122.21766	Root Intrusion	None		
874451	6/2/21	12:43	6/2/21	15:08	435	435	0	Virginia AVE	37.78368	-122.19976	Debris-Rags	None		
874453	5/21/21	18:00	5/22/21	9:30	308	0	0	Sterling AVE	37.7706	-122.16194	Debris-Wipes/Non-dispersible	None		

CIWQS ID	SSO Start Date	SSO Start Time	SSO End Date	SSO End Time	Volume Discharged	Volume Recovered	Volume Not Recovered	Location of Discharge	LAT	LON	Cause	Impacted Waterbody	SSO+	MLX Rehab
874475	6/3/21	17:38	6/3/21	20:30	860	0	860	Moss AVE	37.81862	-122.25145	Debris-Wipes/Non-dispersible	Lake Merritt		
874512	6/7/21	9:05	6/7/21	10:45	100	0	0	Monan ST & Zieger AVE	37.74994	-122.12623	Root Intrusion	None		
874733	6/10/21	15:35	6/10/21	19:30	42	0	0	Norfolk RD	37.86028	-122.22455	Root Intrusion	None		
874761	6/16/21	10:22	6/16/21	12:15	299	299	0	56th AVE	37.77639	-122.18945	Root Intrusion	None		
874792	6/17/21	17:19	6/17/21	19:20	4	4	0	Lee ST	37.81198	-122.25693	Debris-Wipes/Non-dispersible	None		
875032	6/23/21	20:13	6/24/21	0:45	821	821	0	International BLVD	37.76698	-122.20276	Debris-Rags	None		
869382	9/26/20	16:40	9/26/20	19:00	100	95	5	Greenly DR	37.77271	122.16434	Debris - Wipes	None	Yes	
872676	3/1/21	16:45	3/1/21	18:00	495	495	0	Chestnut ST	37.82173	122.28087	Debris - Construction	None	No	No

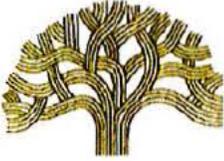
## Appendix B. – AMIP Implementation

**Table B.1 – Summary of Implementation of AMIP**

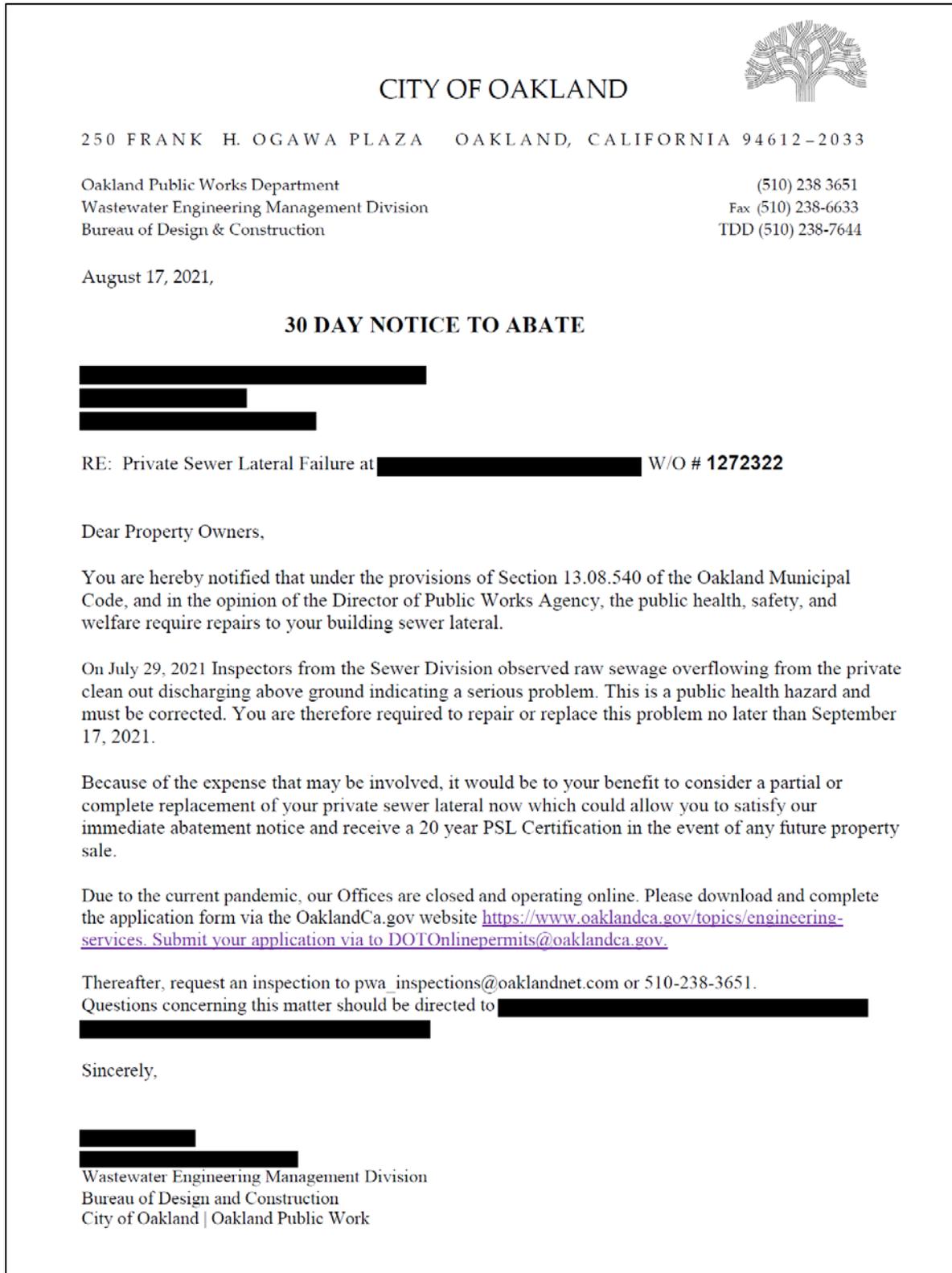
Element	Description	Proposed Revisions	Conformance w/ CD
<b>Routine Inspection</b>	<ul style="list-style-type: none"> <li>• Annual minimum footage of sewer inspection;</li> <li>• Inspection methods and schedule;</li> <li>• Evaluation and documentation of condition assessment;</li> <li>• Purchase/lease of tools and equipment.</li> </ul>	None.	Current plan is in conformance with CD mandates and is in full implementation.
<b>Maintenance Protocols</b>	<ul style="list-style-type: none"> <li>• Annual minimum footage of sewer cleaning and chemical root control;</li> <li>• Track maintenance ‘hot spots’, cleaning frequency for ‘hot spots’, and procedure for ‘hot spot’ identification;</li> <li>• Staffing plan;</li> <li>• Maintenance QAQC program.</li> </ul>	None.	Current plan is in conformance with CD mandates and is in full implementation.
<b>Condition-based Repair/Replacement</b>	<ul style="list-style-type: none"> <li>• Annual minimum footage and/or timeframe of sewer rehab and repair;</li> <li>• Capacity monitoring;</li> <li>• 10-year financial plan/Funding plan.</li> </ul>	None.	Current plan is in conformance with CD mandates. However, projected budget shortfalls within next budget cycle will require revisions to the current 10-year financial plan.

## Appendix C – Sample Enforcement Notification(s)

Figure C.1. – Notice of Defective Sewer Lateral (Door Hanger)

Front	Back
<p style="text-align: center;"> CITY OF OAKLAND</p> <p style="text-align: center;"><b>ATTENTION RESIDENT AND/OR MERCHANT PLEASE CONTACT US</b></p> <p>This notice is to inform you that our Sewer Maintenance Division will need to access your property for the following reason:</p> <ul style="list-style-type: none"><li>Inspect our City main and/or structures</li><li>Repair our City main and/or structures</li><li>Dye-test your service lateral from inside your residence/building.</li><li>Other:</li></ul> <p>_____</p> <p>_____</p> <p>To schedule an appointment, or for additional information on Contractors, and/or funding programs, please contact our office Mon-Fri 7:00am to 3:30pm, at (510)615-5969.</p> <p>Thank you, Crew Leader _____ Date: _____</p> <p>To request service from the Public Works Department please contact our OAK311 call center by:</p> <p><b>Phone:</b> Call 311 from any phone within Oakland. (If you are calling from outside Oakland, continue to use the number (510) 615-5566.)</p> <p><b>E-mail:</b> OAK311@oaklandnet.com</p> <p><b>Web:</b> 311.oaklandca.gov</p> <p><b>App:</b> OAK 311, available free for Apple and Android smart devices (powered by SeeClickFix)</p> <p>Oakland Public Works – Sewer Maintenance Division</p>	<p style="text-align: center;"><b>Back</b></p> <p>Pursuant to Section 13.08.100 of the Oakland Municipal Code, please take the necessary steps to correct the complaint/identified defect, immediately. Failure to do so could result in a threat to public health and safety, and may result in legal and/or financial consequences.</p>

**Figure C.2. – 30-day Notice to Abate Defective Sewer Lateral**



## Appendix D – Sample FOG Outreach

Figure D.1. – FOG Outreach Billing Insert

**Don't Pour Fats, Oils and Grease Down the Drain!**

Fats, Oils and Grease (FOG) are a natural part of our food. FOG includes: cooking oils, shortening, dairy products, sauces and salad dressings. FOG blocks sewer lines and may cause overflows into your property, your neighborhood and the Bay.

Follow these tips from the City of Oakland:

- Pour cooled FOG into an empty cardboard cereal or other sturdy paper to-go box
- Remove remaining FOG by scraping greasy pans and absorbing oil with a paper towel
- Dispose of these items in your compost cart

**To drop off large amounts of used cooking oil, or for more information about FOG, visit [oaklandca.gov/topics/fats-oils-and-grease-fog](http://oaklandca.gov/topics/fats-oils-and-grease-fog)**

## Appendix E – Repair List of City-Owned Sewer Laterals

**Table E – List of City-owned Facilities w/ PSL Repair/Rehab**

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
1	Sanborn (Carmen Flores) Recreation Center	1637Fruitvale Ave	5601	25-722-26	346	2/19/2019	C329152-2
2	Dimond Branch Library	3565Fruitvale Ave 94602	5602	29A-1302-14		7/1/2019	1000715-Tsk7
3	Fire Station#14	3459Champion St	5602	28-905-13-2		7/1/2019	The facility sold.
4	Fire Station#14 StorageBuilding	3460Champion St	5603	28-905-13-3		7/1/2019	The facility sold.
5	Fire Station#25	2795 ButtersDr	5606	29-1161-25	67	6/7/2019	1000715-Tsk7
6	Fire Station#25 ExerciseBuilding	2795 ButtersDr	5606	29-1161-25	40	6/7/2019	1000715-Tsk7
7	Joaquin Miller Park- The Abbey	3082Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
8	Joaquin Miller Park-Fire Circle Restroom	3540Joaquin Miller Rd	5606	29-1200-6-3	371	5/9/2017	C329152-Task Order 1
9	Joaquin Miller Park-Sanctuary toMemory	3540Joaquin Miller Rd	5606	29-1200-6-3	213	5/9/2017	C329152-Task Order 1
10	Joaquin Miller Community Center	3594Sanborn Dr	5606	29-1200-6-3	216.5	5/9/2017	C329152-Task Order 1
11	Joaquin Miller Park-415 Society Trailer	3540Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral
12	Joaquin Miller Park-Meadow Restroom	3540Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	Cesspool-Not connected to the City sewer system
13	Joaquin Miller Park-Shipping Container (2)	3540Joaquin Miller Rd	5606	29-1200-6-3	363	5/9/2017	C329152-Task Order 1

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
14	Joaquin Miller Park-Storage	3540Joaquin Miller Rd	5606	29-1200-6-3		5/9/2017	No Sewer Lateral
15	Joaquin Miller Park-Storage Barn	3540Joaquin Miller Rd	5606	29-1200-6-3	50	5/9/2017	C329152-Task Order 1
16	Ranger Station	3590Sanborn Dr	5606	29-1200-6-3	166	5/9/2017	C329152-Task Order 1
17	Sequoyah Lodge	2666Mountain Blvd	5606	29-1200-6-3		7/1/2019	1000715-Tsk7
18	Joaquin Miller Park-Woodminster Cascades	Joaquin Miller Park, 3300Joaquin Miller Road94602	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1
19	Woodminster Theater	3300Joaquin Miller Park94603	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
20	Woodminster Theater-Concession Booth	Joaquin Miller Park 94603	5607	29-1200-6-3		5/9/2017	No Sewer Lateral
21	Woodminster Theater - Restroom	3300Joaquin Miller Rd	5606	29-1200-6-3	251	5/9/2017	C329152-Task Order 1
22	Joaquin Miller Park-PAL Cabin 1	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
23	Joaquin Miller Park-PAL Cabin 2	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
24	Joaquin Miller Park-PAL Cabin 3	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
25	Joaquin Miller Park-PAL Cabin 4	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
26	Joaquin Miller Park-PAL Cabin 5	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
27	Joaquin Miller Park-PAL Cabin 6	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	No Sewer Lateral
28	Joaquin Miller Park-Redwood Glen Restroom	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
29	Joaquin Miller Park-Rotary	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
30	Joaquin Miller Park-Metropolitan Horseman's Association Clubhouse	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
31	Joaquin Miller Park-Rotary Day	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
32	Joaquin Miller Park-Rotary Day Camp	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
33	Joaquin Miller Park-Sequoia Arena Restroom	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
34	Joaquin Miller Park-Siniwak Cabin	10900Skyline Blvd	5607	29-1200-7-3		5/9/2017	Cesspool-Not connected to the City sewer system
35	San Antonio Park Head Start Center	1701 East 19th St	6003	20-295-1	1,037	7/1/2019	1000715-Tsk7
36	San Antonio Recreation Center	1701 East 19th St	6003	20-295-1		7/1/2019	1000715-Tsk7
37	Manzanita Head Start Center	2701 – 22ndAve	6008	22-364-21		7/1/2019	1000715-Tsk7 No lateral

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
38	Manzanita Head Recreation Center	2701 – 22ndAve	6008	22-364-21	40	7/2/2019	1000715-Tsk7
39	Union Point - South Parking Lot (hazmat under pavement)	2311Embarcadero	6103	18-505-1		4/9/2019	No sewer lateral (C329152-2)
40	Union Point - Union Hill (hazmat under hill)	2311Embarcadero	6103	18-505-1		4/9/2019	Facility connect directly on top of 6" sewer main. The sewer is in a fair condition and no repair is needed.(C329152-2)
41	Animal Shelter (new)	1101 – 29thAve	6202	25-880-1-6(19-0093-016-02)	151	2/14/2019	Replaced all laterals and did not receive the EBMUD PSL certificate because another facility is in the same parcel but it is not part of Appendix H1 locations list(C329152-2).
42	Peralta House	2465 – 34thAve	80022	27-878-2	25	4/9/2019	C329152-2
43	Coolidge House	2496Coolidge Ave	80022	27-878-1	88	4/9/2019	C329152-2

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
44	Peralta Hacienda Park-Community Center	2500 - 34thAve 94601	80022	27-878-2	20	4/9/2019	C329152-2
45	Peralta Hacienda Park-House	2465 34thAve	80101	27-899-1	173	4/9/2019	C329152-2
46	Peralta Hacienda Park-Restroom	2465 34thAve	80101	27-899-1	56	4/9/2019	C329152-2
47	55th Avenue Head Start Center	1800 55thAve	82004	38-3228-5-1		4/8/2019	No Sewer lateral. (C329152-2)
48	Fremont Pool and Building	4550Foothill Blvd 94601	82004	35-2401-2	37	4/18/2019	C329152-2
49	Fremont Pool -Locker Rooms & Mechanical Room	4550Foothill Blvd 94601	82004	35-2401-2	35	4/18/2019	C329152-2

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
50	Melrose Branch	4805Foothill Blvd 94601	82004	35-2384-1	30	4/10/2019	C329152-2
51	Fire Station #18	1700 – 50thAve	82005	35-2386-18	25	4/18/2019	C329152-2
52	Rainbow Teen Center	5818International Blvd	83002	38-3234-12-3	14	3/13/2019	C329152-2
53	Rainbow Recreation Center	5800International Blvd 94621	83201	38-3234-7-1	10	3/13/2019	C329152-2
54	Burckhalter Park- Restroom	4060Edwards Ave	83404	40A-3441-36-5	145	6/25/2019	1000715-Tsk7
55	McCrea Park Residence and Restroom	4460Shepherd St	83501	37-2605-87	50	5/20/2019	1000715-Tsk7

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
56	McCrea Park-Fly Casting Pools	4460Shepherd St 94619	83501	37-2605-87		7/1/2019	1000715-Tsk7 No lateral
57	Redwood Heights Rec Center	3883 Aliso Ave 94619	83501	30-1869-58-3	360	7/1/2019	1000715-Tsk7
58	Leona Lodge	4444Mountain Blvd	83502	37-2605-90	265	6/17/2019	1000715-Tsk7
59	81st Avenue Branch Library	1021 81stAve	84003	41-4211-1-3	63	12/10/2018	Replaced all laterals and did not receive the EBMUD PSL certificate because another facility is in the same parcel but it is not part of Appendix H1 locations list (C329152-2).
60	Carter Gilmore Park-New Restroom	1390 – 66thAve	84191	41-4132-15-3	112	10/31/2018	Replaced all laterals and did not receive EBMUD PSL certificate because a 8" sewer main in this parcel needs to be tested in order to get the PSL for the whole parcel (C329152-2).
61	Fire Station #29	1016 – 66thAve	84101	41-4062-12	42	11/15/2018	C329152-2

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
62	Fire Station #29 Garage	1016 – 66thAve	84101	41-4062-12	42	11/15/2018	C329152-2
63	Martin Luther King Branch Library	6833International Blvd 94621	84101	41-4132-15-1	52	11/9/2018	C329152-2
64	Officer Willie Wilkins Park- Restroom	9710 C Street	85202	44-4981-9	139	12/14/2018	C329152-2
65	Fire Station #20	1401 – 98thAve	85205	46-5424-26	90	11/21/2018	C329152-2
66	Elmhurst Branch Library	1427 – 88thAve 94621	85211	43-4580-8	65	12/13/2018	C329152-2
67	Dunsmuir House-Barn	2960 Peralta Oaks Ct	85231	48-5658-3-2	83	10/7/2020	(1000715- Tsk9)

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
68	Dunsmuir House-Carriage House	2960 Peralta Oaks Ct	85231	48-5658-3-2	240	11/4/2019	(1000715-Tsk7)
69	Dunsmuir House-Chauffeur's house	2960 Peralta Oaks Ct	85231	48-5658-3-2		10/7/2020	(1000715- Tsk9) No sewer lateral, no plumbing fixture
70	Dunsmuir House-Chicken Coop	2960 Peralta Oaks Ct	85231	48-5658-3-2		10/7/2020	(1000715- Tsk9) No sewer lateral, no plumbing fixture
71	Dunsmuir House-Dinkelspiel House	2960 Peralta Oaks Ct	85231	48-5658-3-2	325	11/4/2019	(1000715-Tsk7)
72	Dunsmuir House-Gardener's House	2960 Peralta Oaks Ct	85231	48-5658-3-2		10/7/2020	(1000715- Tsk9) No sewer lateral, no plumbing fixture
73	Dunsmuir House-Mansion	2960 Peralta Oaks Ct	85231	48-5658-3-2	1,608	10/7/2020	(1000715- Tsk9)

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
74	Dunsmuir House-Milk House	2960 Peralta Oaks Ct	85231	48-5658-3-2		10/7/2020	(1000715- Tsk9) No sewer lateral, no plumbing fixture
75	Dunsmuir House - Pavilion	2958 Peralta Oaks Ct	85231	48-5658-3-2	247	10/7/2020	(1000715- Tsk9)
76	Dunsmuir House- Restroom	2960 Peralta Oaks Ct	85231	48-5658-3-2	219	10/7/2020	(1000715- Tsk9)
77	Dunsmuir House- Ticket Boot	2960 Peralta Oaks Ct	85231	48-5658-3-2		10/7/2020	(1000715- Tsk9) No sewer lateral, no plumbing fixture
78	Lake Chabot- Clubhouse	near 11450 Golf Links Rd	85231	48-5813-3-4	24	11/15/2019	(C329152-2)
79	Lake Chabot- Fromer Cartaker's Mobile Home	near 11450 Golf Links Rd	85231	48-5813-3-4	926	8/8/2019	(C329152-2)

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
80	Lake Chabot-Maintenance Building A	near 11450Golf Links Rd	85231	48-5813-3-4	50	7/23/2019	(C329152-2)
81	Lake Chabot-Maintenance Building B	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
82	Lake Chabot-Maintenance Building C	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
83	Lake Chabot-Maintenance Building D	near 11450Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
84	Lake Chabot-Maintenance Building E	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
85	Lake Chabot-Maintenance Building F	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
86	Lake Chabot-Restroom #1	near 11450 Golf Links Rd	85231	48-5813-3-4	478	7/26/2019	(C329152-2)
87	Lake Chabot-Restroom #2	near 11450 Golf Links Rd	85231	48-5813-3-4	30	11/15/2019	(C329152-2)
88	Lake Chabot-Restroom #3	near 11450Golf Links Rd	85231	48-5813-3-4	91	11/15/2019	(C329152-2)
89	Lake Chabot- Sewer Pump Station	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
90	Lake Chabot- Snack Bar	near 11450 Golf Links Rd	85231	48-5813-3-4		11/15/2019	(C329152-2) No Sewer Lateral
91	Sheffield Village Rec Center	247 Marlow Dr 94605	85231	48-6140-1	24	7/30/2020	(1000715- Tsk9)

No.	Facility	Address	Sub-basin No.	Parcel No.	Pipe Length(linear feet)	Date of Completion	Notes
92	Columbian Gardens Tot Lot	Heskett Rd & Empire Rd	86001	45-5322-30(08-02)	77	4/12/2019	C329152-2
93	Ira Jinkins (Brookfield) Rec Center	9175 Edes Ave 94603	86002	44-5053-1-6	376	12/21/2018	See East Oakland Sports Center Complex (C329152-2).
94	East Oakland Sports Center Complex	9175 Edes Ave	86002	44-5053-1-6	116	1/23/2019	Replaced all laterals and did not receive the EBMUD PSL certificate because Brookfield-Senior Center is in the same parcel as Sport Center Complex but it is not part of Appendix H1 locations list (C329152-2).
95	Spunkmeyer Field Restroom	Harbor Bay Pkwy & Doolittle Dr	87001	42-4404-11-2	168	1/30/2019	Replaced the upper lateral. Inspected the lower lateral (8" sewer main) and found it is in a fair condition. No repair is needed (C329152-2).