

GHG Reduction that would have occurred from implementation of min parking space requirement in ECAP checklist

Minimum Parking Required by Code	138 spaces	121 required for industrial, 17 for retail
Employee parking lot	295 spaces	provided by the project
Project Parking Spaces in Excess of Minimum	157 spaces	
Assuming each space = 2 one-way trips, excess spaces =	314 trips per day	
Based on CalEEMod Run, each H-W trip length =	9.5 miles	
Daily VMT that would be reduced from reduction in spaces =	2983 miles per day	
Annual VMT that would be reduced from reduction in spaces =	1088795 miles per year	
Reducing 157 parking spaces would translate to a reduction of	257.2 annual MTCO₂e	, see CalEEMod run with reduced parking/ associated trips
	236.25 g/CO ₂ e/mile	

GHG Offsets

1. Implement Commute Trip Reduction Program (Mandatory Implementation and Monitoring)

Source:

https://www.airquality.org/ClimateChange/Documents/Handbook%20Public%20Draft_2021-Aug.pdf

Measure T-6

If this measure is selected, the user **may not also take credit for Measure T-5**, which represents the same implementation activities as Measure T-5, except that the CTR program would be mandatory. Users should select either Measure T-5 or T-6.

If this measure is selected, the user **may not also take credit for Measures T-7 through T-11**. Measure T-6 accounts for the combined GHG reductions achieved by each of these individual measures. To combine the GHG reductions from T-6 with any of these measures would be considered double counting. However, the user may take credit for Measure T-12 and T-13 within the larger CTR subcategory, so long as the combined VMT reduction does not exceed 45 percent, as noted above.

A = B * C * D

- A = Percent reduction in GHG emissions from project/site employee commute VMT
- B = Percent of employees eligible for program (percent)
- C = Percent reduction in vehicle mode share of employee commute trips
- D = Adjustment from vehicle mode share to commute VMT

- 20.0%
- 100.0%
- 20.0%
- 1.0

Source:

- Project info (100% eligibility for warehouse employees)
- Assume 20% so as not to include transit passes, which is already part of the ECAP checklist (CAPCOA default is 26%)
- CAPCOA Handbook, 2021.

Mandatory CTR program would reduce project emissions by **-180.4 MTCO₂e**
-43.28

GHG Reduction Formula

A = B × C × D

GHG Calculation Variables

ID	Variable	Value	Unit	Source
Output				
A	Percent reduction in GHG emissions from project/site employee commute VMT	0–26.0	%	calculated
User Inputs				
B	Percent of employees eligible for program	0–100	%	user input
Constants, Assumptions, and Available Defaults				
C	Percent reduction in vehicle mode share of employee commute trips	-26	%	Nelson\Nygaard Consulting Associates 2015
D	Adjustment from vehicle mode share to commute VMT	1	unitless	assumed

Further explanation of key variables:

- (B) – This refers to the percent of employees that would be able to participate in the program. This will usually be 100 percent. Employees who might not be able to participate could include those who work nighttime hours when transit and rideshare services are not available or employees who are required to drive to work as part of their job duties. This input does not refer to the percent of employees who participate in the program.
- (C) – A multiyear study of mode share on Genentech’s South San Francisco campuses tracked the long-run change in employee commute mode share with implementation of mandatory CTR. Between 2006 and 2014, employee vehicle mode share (includes single-occupied vehicles and carpools) decreased from approximately 90 percent to 64 percent, which is a 26 percent reduction (Nelson\Nygaard Consulting Associates 2015).
- (D) – The adjustment factor from vehicle mode share to commute VMT is 1. This assumes that all vehicle trips will average out to typical trip length. Thus, it can be assumed that a percentage reduction in vehicle trips will equal the same percentage reduction in VMT.

2. Install Rooftop Solar PV System

Source:

<https://pvwatts.nrel.gov/pvwatts.php>

Size (kW) = array area (square meter) * 1 kW/square meter * module efficiency (%)

Project Roof Area	430,000 square feet [warehouse]
Rooftop Space for Solar	25% 25% of roof space assumed to be eligible for PV module, roof space assumed equivalent to building footprint
Array Area	106,080 square feet - from project sponsor, 5/3/23 email from Elizabeth Kanner
Array Area	9,855 square meters 1 foot = 0.092903 square meter
Efficiency Assumption	17.00%
Size	1,675 kWh/yr [output saved in folder as PDF]
PVWatts Output	2,647,343 kWh/yr [output saved in folder as PDF] 2,647.3 MWh/yr

**Solar capacity for the location exceeds the electricity demand for project operation, therefore all electricity emissions would be mitigated.*

GHG Intensity - from CalEEMod (lbs/MWh)			GWP		
CO2 Intensity	CH4 Intensity	N2O Intensity	CO2	CH4	N2O
	98	0.033	0.004	1	25 298

GHG Emissions			Conversion	
MT CO2	MT CH4	MT N2O		1 MT
259,439.61	87.4	10.6		2204.62 lbs
259,439.61	2,184.1	3,155.6		
	TOTAL	264,779.3 lbs CO2e		
	TOTAL	120.1 MT CO2e		

Elec Emission Redox -120.1 MTCO2e/yr

GHG Reduction Summary

Mandatory CTR Program ONLY		
Reduction Measure	Percent Reduction	Reductions Achieved
Combined Transportation		
Measures	-20.0%	-180.4
Solar		-120.1
Total Reductions		-300.5
Excess Reduction		-43.28

3600 Alameda Avenue - CalEEMod input adjustments

Trip Generation Adjustment

Proposed Land Uses	1,000 sqft	Weekday Daily Trips	Adjusted trips	Wkdy daily Trip Rate
Warehouse	430	2230	1286	2.99
Restaurant	10	1070	530	53.00
Parking lot	336	0	0	0.00
Offsite asphalt area	108	0	0	0.00
		3300	1816	
From CalEEMod				
CalEEMod Land Use	Wkdy	Sat	Sun	
Unrefrigerated Warehouse-No Rail	1.74	1.74	1.74	
High Turnover (Sit Down Restaurant)	112.18	122.4	142.64	
Parking Lot	0.00	0.00	0.00	
Other Asphalt Surfaces	0.00	0.00	0.00	
CalEEMod weekday, Sat and Sun trips rates adjusted based on project traffic report				
CalEEMod Land Use	Wkday	Sat	Sun	
Unrefrigerated Warehouse-No Rail		2.99	2.99	2.99
High Turnover (Sit Down Restaurant)		53.00	57.83	67.39
Parking Lot		0.00	0.00	0.00
Other Asphalt Surfaces		0.00	0.00	0.00

Natural Gas to Increase in Electricity Use Conversion

Title 24 (2019) - CalEEMod Default

Project Non-Residential Land Uses	Title-24 Electricity	Nontitle-24 Electricity	Lighting	Title-24 Nat Gas	Nontitle-24 Nat gas
Unrefrigerated Warehouse-No Rail	0.21	1.38	2.17	1.17	0.21
High Turnover (Sit Down Restaurant)	2.38	20.97	5.34	39.50	128.02
Parking Lot	-	-	-	-	-
Other Asphalt Surfaces	-	-	-	-	-
Project Residential Land Uses	--				

Title 24 (2019) - to account for increase in electricity use due to no natural gas

Project Non-Residential Land Uses	Title-24 Electricity	Nontitle-24 Electricity	Lighting	Title-24 Nat Gas	Nontitle-24 Nat gas
Unrefrigerated Warehouse-No Rail	0.55	1.44	2.17	-	-
High Turnover (Sit Down Restaurant)	13.96	58.49	5.34	-	-
Parking Lot	-	-	-	-	-
Other Asphalt Surfaces	-	-	-	-	-
Project Residential Land Uses	--	-	-	-	-

1kBtu = 0.293071 kWh

GHG Reduction Formula (Measure E-15: Require All-Electric Development in 2021 CAPCOA GHG Handbook)

$$A = (-E * C * G * I * J) + (F * C * H * K * J)$$

A = Reduction in GHG emissions from building energy

159.4 MT CO₂e per year

B = Housing or building type =

commercial

C = Number of du or size of commercial building =

429.9 KSF

D = Electricity demand forecast zone =

1

Figure E-1.1, Table E-1.1

E = Existing fuel consumption for natural gas end uses without measure =

53

therm per year per KSF

Table E-15.2

F = Additional electricity use for equivalent electrified end uses with measure =

7025

kWh per year per KSF

Tables E-15.1 & E-15.2

G = Carbon intensity of natural gas (commercial) =

119

lb CO₂e per MMBtu

H = Carbon intensity of local electricity provider =

206

lb CO₂e per MWh

Table E-4.3

I = Conversion from therm to MMBtu =

0.1

MMBtu per therm

J = Conversion from lb to MT =

0.000454

MT per lb

K = Conversion from kWh to MWh =

0.001

MWh per kWh

3600 Alameda Light Industrial - County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**3600 Alameda Light Industrial
County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	429.90	1000sqft	15.68	429,900.00	0
Other Asphalt Surfaces	107.67	1000sqft	2.47	107,670.00	0
Parking Lot	336.18	1000sqft	7.72	336,180.00	0
High Turnover (Sit Down Restaurant)	10.00	1000sqft	0.51	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Project specific information
- Land Use - Project specific information
- Off-road Equipment - Project specific information
- Fleet Mix -
- Road Dust - Project specific information
- Consumer Products - Project specific information
- Area Coating - Project specific information
- Landscape Equipment - Project specific information
- Operational Off-Road Equipment - Project specific information

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Construction Off-road Equipment Mitigation - Project specific information

Mobile Commute Mitigation - Project specific information

Area Mitigation - Project specific information

Water Mitigation - Project specific information

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	150	0
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	0	150
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	0	100
tblAreaMitigation	UseLowVOCPaintParkingValue	0	150
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	0	150
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	0	100
tblCommuteMitigation	EmployeeVanpoolPercentModeShare	0	2
tblConsumerProducts	ROG_EF	0	2.14E-05
tblConsumerProducts	ROG_EF_Degreaser	0	3.542E-07
tblConsumerProducts	ROG_EF_PesticidesFertilizers	0	5.152E-08
tblLandscapeEquipment	NumberSummerDays	0	180
tblRoadDust	MaterialMoistureContent	0	0.5
tblRoadDust	MaterialSiltContent	0	4.3
tblRoadDust	MeanVehicleSpeed	0	40
tblRoadDust	MobileAverageVehicleWeight	0	2.4
tblRoadDust	RoadPercentPave	0	100
tblRoadDust	RoadSiltLoading	0	0.1
tblWaterMitigation	PercentReductionInFlowBathroomFaucet	0	32
tblWaterMitigation	PercentReductionInFlowKitchenFaucet	0	18
tblWaterMitigation	PercentReductionInFlowShower	0	20
tblWaterMitigation	PercentReductionInFlowToilet	0	20
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentReduction	0	6.1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2064	1.6048	1.4763	6.4400e-003	0.6889	0.0515	0.7404	0.1117	0.0488	0.1605	0.0000	597.9802	597.9802	0.1025	0.0199	606.4702
2024	2.5249	0.7205	1.0447	4.2400e-003	0.2697	0.0173	0.2870	0.0703	0.0161	0.0865	0.0000	386.3667	386.3667	0.0455	0.0181	392.8921
Maximum	2.5249	1.6048	1.4763	6.4400e-003	0.6889	0.0515	0.7404	0.1117	0.0488	0.1605	0.0000	597.9802	597.9802	0.1025	0.0199	606.4702

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0758	0.6195	2.4532	6.4400e-003	0.6889	0.0104	0.6993	0.1117	0.0103	0.1220	0.0000	597.9796	597.9796	0.1025	0.0199	606.4696
2024	2.4927	0.3610	1.3175	4.2400e-003	0.2697	4.8300e-003	0.2746	0.0703	4.6800e-003	0.0750	0.0000	386.3666	386.3666	0.0455	0.0181	392.8919
Maximum	2.4927	0.6195	2.4532	6.4400e-003	0.6889	0.0104	0.6993	0.1117	0.0103	0.1220	0.0000	597.9796	597.9796	0.1025	0.0199	606.4696

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.96	57.83	-49.57	0.00	0.00	77.87	5.21	0.00	76.95	20.23	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	4-3-2023	7-2-2023	0.0225	0.0077
4	7-3-2023	10-2-2023	1.0079	0.3607
5	10-3-2023	1-2-2024	0.8246	0.3412
6	1-3-2024	4-2-2024	0.3697	0.1609
7	4-3-2024	7-2-2024	0.2283	0.1411
8	7-3-2024	9-30-2024	1.0242	0.9591
		Highest	1.0242	0.9591

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	119.3070	119.3070	0.0402	4.8700e-003	121.7625
Mobile	0.6633	6.3721	6.7510	0.0328	1.7022	0.0490	1.7513	0.4596	0.0467	0.5064	0.0000	3,153.6488	3,153.6488	0.1105	0.3982	3,275.0767
Offroad	6.3800e-003	0.3114	4.3978	7.3000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	83.6317	83.6317	0.0271	0.0000	84.3079
Stationary						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	106.1866	0.0000	106.1866	6.2755	0.0000	263.0728
Water						0.0000	0.0000		0.0000	0.0000	36.2469	24.6724	60.9193	0.1331	0.0798	88.0359
Total	2.4171	6.6835	11.1569	0.0335	1.7022	0.0538	1.7560	0.4596	0.0515	0.5111	142.4335	3,381.2756	3,523.7091	6.5863	0.4829	3,832.2725

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	119.3070	119.3070	0.0402	4.8700e-003	121.7625
Mobile	0.6633	6.3721	6.7510	0.0328	1.7022	0.0490	1.7513	0.4596	0.0467	0.5064	0.0000	3,153.6488	3,153.6488	0.1105	0.3982	3,275.0767
Offroad	6.3800e-003	0.3114	4.3978	7.3000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	83.6317	83.6317	0.0271	0.0000	84.3079
Stationary						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	106.1866	0.0000	106.1866	6.2755	0.0000	263.0728
Water						0.0000	0.0000		0.0000	0.0000	36.2469	24.6724	60.9193	0.1331	0.0798	88.0359
Total	2.4171	6.6835	11.1569	0.0335	1.7022	0.0538	1.7560	0.4596	0.0515	0.5111	142.4335	3,381.2756	3,523.7091	6.5863	0.4829	3,832.2725

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2023	9/24/2023	5	60	
2	Site Preparation	Site Preparation	9/25/2023	11/19/2023	5	40	
3	Grading	Grading	11/20/2023	1/21/2024	5	45	
4	Building Construction	Building Construction	1/22/2024	8/18/2024	5	150	
5	Paving	Paving	8/19/2024	9/8/2024	5	15	
6	Architectural Coating	Architectural Coating	9/9/2024	11/10/2024	5	45	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 23.9

Acres of Paving: 10.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 659,850; Non-Residential Outdoor: 219,950; Striped Parking Area: 26,631 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Aerial Lifts	6	8.00	150	0.31
Demolition	Air Compressors	2	4.00	50	0.48
Demolition	Concrete/Industrial Saws	2	4.00	50	0.73
Demolition	Crushing/Proc. Equipment	2	6.00	300	0.78
Demolition	Dumpers/Tenders	2	6.00	300	0.38
Demolition	Excavators	4	8.00	400	0.38
Demolition	Other Construction Equipment	2	6.00	150	0.42
Site Preparation	Crushing/Proc. Equipment	2	4.00	400	0.78
Site Preparation	Dumpers/Tenders	12	6.00	250	0.38
Site Preparation	Excavators	2	4.00	400	0.38
Site Preparation	Paving Equipment	2	2.00	400	0.36
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Grading	Dumpers/Tenders	2	8.00	300	0.38
Grading	Excavators	2	8.00	400	0.38
Grading	Graders	0	0.00	187	0.41
Grading	Rollers	2	8.00	300	0.38
Grading	Rubber Tired Dozers	0	0.00	247	0.40
Grading	Scrapers	0	0.00	367	0.48
Grading	Tractors/Loaders/Backhoes	4	8.00	250	0.37
Building Construction	Aerial Lifts	6	4.00	200	0.31
Building Construction	Forklifts	2	1.00	300	0.20
Building Construction	Rough Terrain Forklifts	4	2.00	250	0.40
Paving	Paving Equipment	2	2.00	400	0.36
Paving	Rollers	2	2.00	250	0.38
Paving	Skid Steer Loaders	2	5.00	400	0.37
Architectural Coating	Aerial Lifts	2	6.00	200	0.31
Architectural Coating	Air Compressors	2	6.00	50	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition		80.00	2.00	600.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation		40.00	10.00	3,200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading		40.00	10.00	180.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		360.00	40.00	600.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving		80.00	40.00	60.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		40.00	2.00	90.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6103	0.0000	0.6103	0.0924	0.0000	0.0924	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1195	0.7743	0.8396	2.9600e-003		0.0291	0.0291		0.0278	0.0278	0.0000	270.6820	270.6820	0.0567	0.0000	272.0986
Total	0.1195	0.7743	0.8396	2.9600e-003	0.6103	0.0291	0.6394	0.0924	0.0278	0.1202	0.0000	270.6820	270.6820	0.0567	0.0000	272.0986

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0394	8.9400e-003	1.8000e-004	5.0800e-003	3.4000e-004	5.4200e-003	1.4000e-003	3.2000e-004	1.7200e-003	0.0000	17.4808	17.4808	3.7000e-004	2.7600e-003	18.3131
Vendor	6.0000e-005	2.6200e-003	7.9000e-004	1.0000e-005	3.9000e-004	2.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.1607	1.1607	2.0000e-005	1.7000e-004	1.2128
Worker	6.2800e-003	4.3000e-003	0.0534	1.6000e-004	0.0190	1.0000e-004	0.0191	5.0500e-003	9.0000e-005	5.1400e-003	0.0000	14.7755	14.7755	4.4000e-004	4.2000e-004	14.9103
Total	6.9600e-003	0.0463	0.0631	3.5000e-004	0.0245	4.6000e-004	0.0249	6.5600e-003	4.3000e-004	6.9900e-003	0.0000	33.4170	33.4170	8.3000e-004	3.3500e-003	34.4362

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6103	0.0000	0.6103	0.0924	0.0000	0.0924	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0373	0.2326	1.4198	2.9600e-003		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003	0.0000	270.6817	270.6817	0.0567	0.0000	272.0983
Total	0.0373	0.2326	1.4198	2.9600e-003	0.6103	4.7200e-003	0.6150	0.0924	4.7200e-003	0.0971	0.0000	270.6817	270.6817	0.0567	0.0000	272.0983

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0394	8.9400e-003	1.8000e-004	5.0800e-003	3.4000e-004	5.4200e-003	1.4000e-003	3.2000e-004	1.7200e-003	0.0000	17.4808	17.4808	3.7000e-004	2.7600e-003	18.3131
Vendor	6.0000e-005	2.6200e-003	7.9000e-004	1.0000e-005	3.9000e-004	2.0000e-005	4.1000e-004	1.1000e-004	2.0000e-005	1.3000e-004	0.0000	1.1607	1.1607	2.0000e-005	1.7000e-004	1.2128
Worker	6.2800e-003	4.3000e-003	0.0534	1.6000e-004	0.0190	1.0000e-004	0.0191	5.0500e-003	9.0000e-005	5.1400e-003	0.0000	14.7755	14.7755	4.4000e-004	4.2000e-004	14.9103
Total	6.9600e-003	0.0463	0.0631	3.5000e-004	0.0245	4.6000e-004	0.0249	6.5600e-003	4.3000e-004	6.9900e-003	0.0000	33.4170	33.4170	8.3000e-004	3.3500e-003	34.4362

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.1829	0.1735	8.1000e-004		6.2400e-003	6.2400e-003		6.1100e-003	6.1100e-003	0.0000	79.5944	79.5944	9.5900e-003	0.0000	79.8341
Total	0.0334	0.1829	0.1735	8.1000e-004	0.0000	6.2400e-003	6.2400e-003	0.0000	6.1100e-003	6.1100e-003	0.0000	79.5944	79.5944	9.5900e-003	0.0000	79.8341

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3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.2102	0.0477	9.5000e-004	0.0271	1.7900e-003	0.0289	7.4600e-003	1.7100e-003	9.1800e-003	0.0000	93.2312	93.2312	1.9800e-003	0.0147	97.6701
Vendor	2.0000e-004	8.7500e-003	2.6400e-003	4.0000e-005	1.3100e-003	5.0000e-005	1.3700e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.8689	3.8689	5.0000e-005	5.8000e-004	4.0428
Worker	2.0900e-003	1.4300e-003	0.0178	5.0000e-005	6.3300e-003	3.0000e-005	6.3600e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.9252	4.9252	1.5000e-004	1.4000e-004	4.9701
Total	5.5900e-003	0.2204	0.0681	1.0400e-003	0.0348	1.8700e-003	0.0366	9.5200e-003	1.7900e-003	0.0113	0.0000	102.0252	102.0252	2.1800e-003	0.0155	106.6830

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8200e-003	0.0426	0.3601	8.1000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	79.5943	79.5943	9.5900e-003	0.0000	79.8340
Total	9.8200e-003	0.0426	0.3601	8.1000e-004	0.0000	1.3100e-003	1.3100e-003	0.0000	1.3100e-003	1.3100e-003	0.0000	79.5943	79.5943	9.5900e-003	0.0000	79.8340

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3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.2102	0.0477	9.5000e-004	0.0271	1.7900e-003	0.0289	7.4600e-003	1.7100e-003	9.1800e-003	0.0000	93.2312	93.2312	1.9800e-003	0.0147	97.6701
Vendor	2.0000e-004	8.7500e-003	2.6400e-003	4.0000e-005	1.3100e-003	5.0000e-005	1.3700e-003	3.8000e-004	5.0000e-005	4.3000e-004	0.0000	3.8689	3.8689	5.0000e-005	5.8000e-004	4.0428
Worker	2.0900e-003	1.4300e-003	0.0178	5.0000e-005	6.3300e-003	3.0000e-005	6.3600e-003	1.6800e-003	3.0000e-005	1.7100e-003	0.0000	4.9252	4.9252	1.5000e-004	1.4000e-004	4.9701
Total	5.5900e-003	0.2204	0.0681	1.0400e-003	0.0348	1.8700e-003	0.0366	9.5200e-003	1.7900e-003	0.0113	0.0000	102.0252	102.0252	2.1800e-003	0.0155	106.6830

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0127	0.0000	0.0127	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0391	0.3654	0.3149	1.1600e-003		0.0137	0.0137		0.0126	0.0126	0.0000	102.1698	102.1698	0.0330	0.0000	102.9959
Total	0.0391	0.3654	0.3149	1.1600e-003	0.0127	0.0137	0.0263	1.3700e-003	0.0126	0.0139	0.0000	102.1698	102.1698	0.0330	0.0000	102.9959

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3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.8800e-003	1.7900e-003	4.0000e-005	1.0200e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.4962	3.4962	7.0000e-005	5.5000e-004	3.6626
Vendor	1.5000e-004	6.5600e-003	1.9800e-003	3.0000e-005	9.9000e-004	4.0000e-005	1.0200e-003	2.9000e-004	4.0000e-005	3.2000e-004	0.0000	2.9016	2.9016	4.0000e-005	4.3000e-004	3.0321
Worker	1.5700e-003	1.0800e-003	0.0133	4.0000e-005	4.7400e-003	2.0000e-005	4.7700e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6939	3.6939	1.1000e-004	1.0000e-004	3.7276
Total	1.8400e-003	0.0155	0.0171	1.1000e-004	6.7500e-003	1.3000e-004	6.8700e-003	1.8300e-003	1.2000e-004	1.9400e-003	0.0000	10.0917	10.0917	2.2000e-004	1.0800e-003	10.4223

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0127	0.0000	0.0127	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0143	0.0620	0.5250	1.1600e-003		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	102.1697	102.1697	0.0330	0.0000	102.9958
Total	0.0143	0.0620	0.5250	1.1600e-003	0.0127	1.9100e-003	0.0146	1.3700e-003	1.9100e-003	3.2800e-003	0.0000	102.1697	102.1697	0.0330	0.0000	102.9958

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3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	7.8800e-003	1.7900e-003	4.0000e-005	1.0200e-003	7.0000e-005	1.0800e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.4962	3.4962	7.0000e-005	5.5000e-004	3.6626
Vendor	1.5000e-004	6.5600e-003	1.9800e-003	3.0000e-005	9.9000e-004	4.0000e-005	1.0200e-003	2.9000e-004	4.0000e-005	3.2000e-004	0.0000	2.9016	2.9016	4.0000e-005	4.3000e-004	3.0321
Worker	1.5700e-003	1.0800e-003	0.0133	4.0000e-005	4.7400e-003	2.0000e-005	4.7700e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6939	3.6939	1.1000e-004	1.0000e-004	3.7276
Total	1.8400e-003	0.0155	0.0171	1.1000e-004	6.7500e-003	1.3000e-004	6.8700e-003	1.8300e-003	1.2000e-004	1.9400e-003	0.0000	10.0917	10.0917	2.2000e-004	1.0800e-003	10.4223

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0127	0.0000	0.0127	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.1732	0.1579	5.8000e-004		6.5400e-003	6.5400e-003		6.0200e-003	6.0200e-003	0.0000	51.0746	51.0746	0.0165	0.0000	51.4876
Total	0.0194	0.1732	0.1579	5.8000e-004	0.0127	6.5400e-003	0.0192	1.3700e-003	6.0200e-003	7.3900e-003	0.0000	51.0746	51.0746	0.0165	0.0000	51.4876

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3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9600e-003	9.0000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7225	1.7225	4.0000e-005	2.7000e-004	1.8045
Vendor	7.0000e-005	3.2900e-003	9.7000e-004	1.0000e-005	4.9000e-004	2.0000e-005	5.1000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.4284	1.4284	2.0000e-005	2.1000e-004	1.4927
Worker	7.3000e-004	4.8000e-004	6.2200e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.7872	1.7872	5.0000e-005	5.0000e-005	1.8029
Total	8.6000e-004	7.7300e-003	8.0900e-003	5.0000e-005	3.3700e-003	6.0000e-005	3.4300e-003	9.1000e-004	6.0000e-005	9.7000e-004	0.0000	4.9381	4.9381	1.1000e-004	5.3000e-004	5.1001

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0127	0.0000	0.0127	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1600e-003	0.0310	0.2625	5.8000e-004		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	51.0745	51.0745	0.0165	0.0000	51.4875
Total	7.1600e-003	0.0310	0.2625	5.8000e-004	0.0127	9.5000e-004	0.0136	1.3700e-003	9.5000e-004	2.3200e-003	0.0000	51.0745	51.0745	0.0165	0.0000	51.4875

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3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9600e-003	9.0000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7225	1.7225	4.0000e-005	2.7000e-004	1.8045
Vendor	7.0000e-005	3.2900e-003	9.7000e-004	1.0000e-005	4.9000e-004	2.0000e-005	5.1000e-004	1.4000e-004	2.0000e-005	1.6000e-004	0.0000	1.4284	1.4284	2.0000e-005	2.1000e-004	1.4927
Worker	7.3000e-004	4.8000e-004	6.2200e-003	2.0000e-005	2.3700e-003	1.0000e-005	2.3800e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.7872	1.7872	5.0000e-005	5.0000e-005	1.8029
Total	8.6000e-004	7.7300e-003	8.0900e-003	5.0000e-005	3.3700e-003	6.0000e-005	3.4300e-003	9.1000e-004	6.0000e-005	9.7000e-004	0.0000	4.9381	4.9381	1.1000e-004	5.3000e-004	5.1001

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0201	0.2300	0.1558	7.4000e-004		5.9000e-003	5.9000e-003		5.4300e-003	5.4300e-003	0.0000	65.2674	65.2674	0.0211	0.0000	65.7951
Total	0.0201	0.2300	0.1558	7.4000e-004		5.9000e-003	5.9000e-003		5.4300e-003	5.4300e-003	0.0000	65.2674	65.2674	0.0211	0.0000	65.7951

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3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0396	8.9800e-003	1.8000e-004	5.0800e-003	3.4000e-004	5.4200e-003	1.4000e-003	3.2000e-004	1.7200e-003	0.0000	17.2247	17.2247	3.7000e-004	2.7200e-003	18.0451
Vendor	2.9600e-003	0.1317	0.0389	5.9000e-004	0.0197	8.0000e-004	0.0205	5.7000e-003	7.6000e-004	6.4700e-003	0.0000	57.1375	57.1375	7.9000e-004	8.5600e-003	59.7084
Worker	0.0659	0.0432	0.5598	1.7500e-003	0.2135	1.0500e-003	0.2145	0.0568	9.7000e-004	0.0578	0.0000	160.8474	160.8474	4.5000e-003	4.3500e-003	162.2574
Total	0.0695	0.2145	0.6077	2.5200e-003	0.2383	2.1900e-003	0.2405	0.0639	2.0500e-003	0.0660	0.0000	235.2095	235.2095	5.6600e-003	0.0156	240.0109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1300e-003	0.0396	0.3347	7.4000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	65.2673	65.2673	0.0211	0.0000	65.7950
Total	9.1300e-003	0.0396	0.3347	7.4000e-004		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	65.2673	65.2673	0.0211	0.0000	65.7950

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3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.2000e-004	0.0396	8.9800e-003	1.8000e-004	5.0800e-003	3.4000e-004	5.4200e-003	1.4000e-003	3.2000e-004	1.7200e-003	0.0000	17.2247	17.2247	3.7000e-004	2.7200e-003	18.0451
Vendor	2.9600e-003	0.1317	0.0389	5.9000e-004	0.0197	8.0000e-004	0.0205	5.7000e-003	7.6000e-004	6.4700e-003	0.0000	57.1375	57.1375	7.9000e-004	8.5600e-003	59.7084
Worker	0.0659	0.0432	0.5598	1.7500e-003	0.2135	1.0500e-003	0.2145	0.0568	9.7000e-004	0.0578	0.0000	160.8474	160.8474	4.5000e-003	4.3500e-003	162.2574
Total	0.0695	0.2145	0.6077	2.5200e-003	0.2383	2.1900e-003	0.2405	0.0639	2.0500e-003	0.0660	0.0000	235.2095	235.2095	5.6600e-003	0.0156	240.0109

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1300e-003	0.0124	7.6300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.0000e-004	4.0000e-004	0.0000	2.6990	2.6990	8.7000e-004	0.0000	2.7208
Paving	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.0124	7.6300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.0000e-004	4.0000e-004	0.0000	2.6990	2.6990	8.7000e-004	0.0000	2.7208

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3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9600e-003	9.0000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7225	1.7225	4.0000e-005	2.7000e-004	1.8045
Vendor	3.0000e-004	0.0132	3.8900e-003	6.0000e-005	1.9700e-003	8.0000e-005	2.0500e-003	5.7000e-004	8.0000e-005	6.5000e-004	0.0000	5.7138	5.7138	8.0000e-005	8.6000e-004	5.9708
Worker	1.4700e-003	9.6000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7700e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.5744	3.5744	1.0000e-004	1.0000e-004	3.6057
Total	1.8300e-003	0.0181	0.0172	1.2000e-004	7.2200e-003	1.3000e-004	7.3600e-003	1.9700e-003	1.3000e-004	2.1000e-003	0.0000	11.0106	11.0106	2.2000e-004	1.2300e-003	11.3811

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8000e-004	1.6300e-003	0.0138	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.6990	2.6990	8.7000e-004	0.0000	2.7208
Paving	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0137	1.6300e-003	0.0138	3.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	2.6990	2.6990	8.7000e-004	0.0000	2.7208

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3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9600e-003	9.0000e-004	2.0000e-005	5.1000e-004	3.0000e-005	5.4000e-004	1.4000e-004	3.0000e-005	1.7000e-004	0.0000	1.7225	1.7225	4.0000e-005	2.7000e-004	1.8045
Vendor	3.0000e-004	0.0132	3.8900e-003	6.0000e-005	1.9700e-003	8.0000e-005	2.0500e-003	5.7000e-004	8.0000e-005	6.5000e-004	0.0000	5.7138	5.7138	8.0000e-005	8.6000e-004	5.9708
Worker	1.4700e-003	9.6000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7700e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.5744	3.5744	1.0000e-004	1.0000e-004	3.6057
Total	1.8300e-003	0.0181	0.0172	1.2000e-004	7.2200e-003	1.3000e-004	7.3600e-003	1.9700e-003	1.3000e-004	2.1000e-003	0.0000	11.0106	11.0106	2.2000e-004	1.2300e-003	11.3811

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3864					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.0552	0.0697	1.0000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	7.3652	7.3652	8.2000e-004	0.0000	7.3856
Total	2.3964	0.0552	0.0697	1.0000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	7.3652	7.3652	8.2000e-004	0.0000	7.3856

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3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	5.9400e-003	1.3500e-003	3.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	2.5837	2.5837	6.0000e-005	4.1000e-004	2.7068
Vendor	4.0000e-005	1.9800e-003	5.8000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8571	0.8571	1.0000e-005	1.3000e-004	0.8956
Worker	2.2000e-003	1.4400e-003	0.0187	6.0000e-005	7.1200e-003	4.0000e-005	7.1500e-003	1.8900e-003	3.0000e-005	1.9300e-003	0.0000	5.3616	5.3616	1.5000e-004	1.5000e-004	5.4086
Total	2.3300e-003	9.3600e-003	0.0206	1.0000e-004	8.1800e-003	1.0000e-004	8.2700e-003	2.1900e-003	9.0000e-005	2.2900e-003	0.0000	8.8023	8.8023	2.2000e-004	6.9000e-004	9.0110

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.3864					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0391	0.0529	1.0000e-004		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.3652	7.3652	8.2000e-004	0.0000	7.3856
Total	2.3881	0.0391	0.0529	1.0000e-004		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.3652	7.3652	8.2000e-004	0.0000	7.3856

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	5.9400e-003	1.3500e-003	3.0000e-005	7.6000e-004	5.0000e-005	8.1000e-004	2.1000e-004	5.0000e-005	2.6000e-004	0.0000	2.5837	2.5837	6.0000e-005	4.1000e-004	2.7068
Vendor	4.0000e-005	1.9800e-003	5.8000e-004	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.8571	0.8571	1.0000e-005	1.3000e-004	0.8956
Worker	2.2000e-003	1.4400e-003	0.0187	6.0000e-005	7.1200e-003	4.0000e-005	7.1500e-003	1.8900e-003	3.0000e-005	1.9300e-003	0.0000	5.3616	5.3616	1.5000e-004	1.5000e-004	5.4086
Total	2.3300e-003	9.3600e-003	0.0206	1.0000e-004	8.1800e-003	1.0000e-004	8.2700e-003	2.1900e-003	9.0000e-005	2.2900e-003	0.0000	8.8023	8.8023	2.2000e-004	6.9000e-004	9.0110

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6633	6.3721	6.7510	0.0328	1.7022	0.0490	1.7513	0.4596	0.0467	0.5064	0.0000	3,153.6488	3,153.6488	0.1105	0.3982	3,275.0767
Unmitigated	0.6633	6.3721	6.7510	0.0328	1.7022	0.0490	1.7513	0.4596	0.0467	0.5064	0.0000	3,153.6488	3,153.6488	0.1105	0.3982	3,275.0767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High Turnover (Sit Down Restaurant)	530.00	578.30	673.90	646,798	646,798
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,285.40	1,285.40	1285.40	3,752,743	3,752,743
Total	1,815.40	1,863.70	1,959.30	4,399,540	4,399,540

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High Turnover (Sit Down)	9.50	7.30	7.30	8.50	72.50	19.00	37	20	43
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	777900	34.5793	0.0116	1.4100e-003	35.2910
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	117663	5.2304	1.7600e-003	2.1000e-004	5.3380
Unrefrigerated Warehouse-No Rail	1.78838e+006	79.4973	0.0268	3.2400e-003	81.1335
Total		119.3070	0.0402	4.8600e-003	121.7625

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High Turnover (Sit Down Restaurant)	777900	34.5793	0.0116	1.4100e-003	35.2910
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	117663	5.2304	1.7600e-003	2.1000e-004	5.3380
Unrefrigerated Warehouse-No Rail	1.78838e+006	79.4973	0.0268	3.2400e-003	81.1335
Total		119.3070	0.0402	4.8600e-003	121.7625

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Unmitigated	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7467					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Total	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.7467					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.5000e-004	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Total	1.7475	7.0000e-005	8.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	60.9193	0.1331	0.0798	88.0359
Unmitigated	60.9193	0.1331	0.0798	88.0359

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	3.03534 / 0.193745	1.8341	3.9500e-003	2.3700e-003	2.6381
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	99.4144 / 0	59.0851	0.1291	0.0775	85.3977
Total		60.9193	0.1331	0.0798	88.0359

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High Turnover (Sit Down Restaurant)	3.03534 / 0.193745	1.8341	3.9500e-003	2.3700e-003	2.6381
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	99.4144 / 0	59.0851	0.1291	0.0775	85.3977
Total		60.9193	0.1331	0.0798	88.0359

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	106.1866	6.2755	0.0000	263.0728
Unmitigated	106.1866	6.2755	0.0000	263.0728

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	119	24.1559	1.4276	0.0000	59.8453
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	404.11	82.0307	4.8479	0.0000	203.2275
Total		106.1866	6.2754	0.0000	263.0728

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High Turnover (Sit Down Restaurant)	119	24.1559	1.4276	0.0000	59.8453
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	404.11	82.0307	4.8479	0.0000	203.2275
Total		106.1866	6.2754	0.0000	263.0728

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	5	4.00	365	93	0.20	CNG
Off-Highway Tractors	2	8.00	365	300	0.39	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Forklifts	6.3800e-003	0.3114	4.3978	7.3000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	83.6317	83.6317	0.0271	0.0000	84.3079
Total	6.3800e-003	0.3114	4.3978	7.3000e-004		4.6900e-003	4.6900e-003		4.6900e-003	4.6900e-003	0.0000	83.6317	83.6317	0.0271	0.0000	84.3079

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1	50	350	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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3600 Alameda Light Industrial - County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	tons/yr										MT/yr						
Emergency Generator - Diesel (300 - 600 HP)						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

11.0 Vegetation

tblProjectCharacteristics

ProjectName	LocationState	EMFAC_IL	WindSpeed	Precipitation	ClimateZone	Urbanization	Operation	UtilityCompany	CO2Intensity	CH4Intensity	N2OIntensity	TotalPopulation	TotalLotArea	UsingHistoric	ConstructionUse	AdjustedEMFAC	Factors
3600 Alam C	ALA		2.2	63	5	Urban	2024	Pacific Ga	98	0.033	0.004	0	26.38	0	2022/10/0:		0

tblPollutants

PollutantS	PollutantF	PollutantName
1	Reactive C	ROG
1	Nitrogen C	NOX
1	Carbon M	CO
1	Sulfur Dio	SO2
1	Particulate	PM10
1	Particulate	PM2_5
1	Fugitive P	PM10_FUG
1	Fugitive P	PM25_FUG
1	Biogenic C	CO2_BIO
1	Non-Bioge	CO2_NBIO
1	Carbon Di	CO2
1	Methane (CH4
1	Nitrous Ox	N2O
1	CO2 Equiv	CO2E

tblLandUse

LandUseT	LandUseS	LandUseU	LandUseS	LotAcreag	LandUseS	Population	BuildingSp	GreenSpa	RecSwimming	AreaAllow	Edit
Industrial	Unrefriger	429.9	1000sqft	15.68	429900	0	429900	0	0		
Parking	Other Aspl	107.67	1000sqft	2.47	107670	0	107670	0	0		
Parking	Parking Lo	336.18	1000sqft	7.72	336180	0	336180	0	0		
Recreator	High Turnc	10	1000sqft	0.51	10000	0	10000	0	0		

tblConstructionPhase

PhaseNum	PhaseName	PhaseType	PhaseStart	PhaseEnd	NumDays\	NumDays	PhaseDescription
1	Demolition	Demolition	2023/07/01	2023/09/20	5	60	
2	Site Prepa	Site Prepa	2023/09/21	2023/11/10	5	40	
3	Grading	Grading	2023/11/21	2024/01/20	5	45	
4	Building C	Building C	2024/01/21	2024/08/10	5	150	
5	Paving	Paving	2024/08/11	2024/09/05	5	15	
6	Architectur	Architectur	2024/09/06	2024/11/10	5	45	

tblOffRoadEquipment

PhaseName	OffRoadEq	OffRoadEq	UsageHou	HorsePow	LoadFactor
Demolition Aerial Lifts	6	8	150	0.31	
Demolition Air Compr	2	4	50	0.48	
Demolition Concrete/	2	4	50	0.73	
Demolition Crushing/F	2	6	300	0.78	
Demolition Dumpers/	2	6	300	0.38	
Demolition Excavators	4	8	400	0.38	
Demolition Other Con	2	6	150	0.42	
Site Prepa Crushing/F	2	4	400	0.78	
Site Prepa Dumpers/	12	6	250	0.38	
Site Prepa Excavators	2	4	400	0.38	
Site Prepa Paving Eq	2	2	400	0.36	
Site Prepa Rubber Tir	0	0	247	0.4	
Site Prepa Tractors/L	0	0	97	0.37	
Grading Dumpers/	2	8	300	0.38	
Grading Excavators	2	8	400	0.38	
Grading Graders	0	0	187	0.41	
Grading Rollers	2	8	300	0.38	
Grading Rubber Tir	0	0	247	0.4	
Grading Scrapers	0	0	367	0.48	
Grading Tractors/L	4	8	250	0.37	
Building C Aerial Lifts	6	4	200	0.31	
Building C Forklifts	2	1	300	0.2	
Building C Rough Ter	4	2	250	0.4	
Paving Paving Eq	2	2	400	0.36	
Paving Rollers	2	2	250	0.38	
Paving Skid Steer	2	5	400	0.37	
Architectur Aerial Lifts	2	6	200	0.31	
Architectur Air Compr	2	6	50	0.48	

tblTripsAndVMT

Phase	Nan	WorkerTriç	VendorTriç	HaulingTri	WorkerTriç	VendorTriç	HaulingTri	WorkerVel	VendorVel	Hauling	VehicleClass
Demolition		80	2	600	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	
Site Prepa		40	10	3200	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	
Grading		40	10	180	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	
Building C		360	40	600	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	
Paving		80	40	60	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	
Architectur		40	2	90	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	

tblOnRoadDust

PhaseName	WorkerPer	VendorPer	HaulingPe	RoadSiltLc	MaterialSil	MaterialMc	AverageVc	MeanVehicleSpeed
Demolition	100	100	100	0.1	8.5	0.5	2.4	40
Site Prepa	100	100	100	0.1	8.5	0.5	2.4	40
Grading	100	100	100	0.1	8.5	0.5	2.4	40
Building C	100	100	100	0.1	8.5	0.5	2.4	40
Paving	100	100	100	0.1	8.5	0.5	2.4	40
Architectur	100	100	100	0.1	8.5	0.5	2.4	40

tblDemolition

PhaseName	Demolition	DemolitionUnitAmount
Demolition Building S		1240000

tblGrading

PhaseName	MaterialIm	MaterialEx	GradingSi	ImportExp	MeanVehi	AcresOfGr	MaterialMc	MaterialMc	MaterialSiltContent
Site Prepa	0	0		0	7.1	0	7.9	12	6.9
Grading	10000	0		0	7.1	23.9	7.9	12	6.9

tblArchitecturalCoating

Phase	Nan	Architectu	Architectu	EF_Resid	ConstArea	EF_Resid	ConstArea	EF_Nonre	ConstArea	EF_Nonre	ConstArea	EF_Parkin	ConstArea_Parking
Architectu	2012/01/0	3000/12/3		100	0	150	0	100	659850	150	219950	150	26631

tblPaving

ParkingLotAcreage

tblVehicleTrips

VehicleTrips	VehicleTrips	WD_TR	ST_TR	SU_TR	HW_TL	HS_TL	HO_TL	CC_TL	CW_TL	CNW_TL	PR_TP	DV_TP	PB_TP	HW_TTP	HS_TTP	HO_TTP	CC_TTP	CW_TTP	CNW_TTP
High Turnover 1000sqft	53	57.83	67.39	0	0	0	7.3	9.5	7.3	37	20	43	0	0	0	0	72.5	8.5	19
Other Asphalt 1000sqft	0	0	0	0	0	0	7.3	9.5	7.3	0	0	0	0	0	0	0	0	0	0
Parking Lot 1000sqft	0	0	0	0	0	0	7.3	9.5	7.3	0	0	0	0	0	0	0	0	0	0
Unrefrigerated 1000sqft	2.99	2.99	2.99	0	0	0	7.3	9.5	7.3	92	5	3	0	0	0	0	0	59	41

tblVehicleEF

S	TOG_DIUI	0.08706	0.190476	0.134492	0.15407	0.004331	0.002481	0.000634	0.000004	0.003456	0.000136	2.326181	0.000927	1.338372
S	TOG_HTS	0.103133	0.186784	0.132504	0.148642	0.081928	0.049759	0.015387	0.000078	0.024722	0.000931	0.955353	0.003871	0.057218
S	TOG_IDLE	0	0	0	0	0.029983	0.022972	0.019244	0.542963	0.068008	0	0	0.47923	0
S	TOG_RES	0.074152	0.147592	0.122334	0.142174	0.002168	0.001278	0.000334	0.000002	0.001462	0.000079	1.417585	0.00041	0.464416
S	TOG_RUN	0.011428	0.025249	0.018593	0.022292	0.112014	0.122978	0.017463	0.056357	0.052655	1.146531	2.753499	0.0677	0.081265
S	TOG_RUN	0.025666	0.073887	0.052121	0.056131	0.198055	0.101957	0.012931	0.000003	0.06792	0.000162	0.517771	0.005339	0.012346
S	TOG_STR	0.185268	0.272138	0.263541	0.325679	0.073898	0.046488	0.036135	0.000001	0.117174	0.004514	1.752477	0.031538	0.095019
S	N2O_IDLE	0	0	0	0	0.000728	0.001612	0.010716	0.168662	0.011194	0	0	0.046515	0
S	N2O_RUN	0.003844	0.005448	0.005195	0.006964	0.042094	0.06486	0.14305	0.217185	0.112371	0.268855	0.060775	0.112212	0.055345
S	N2O_STR	0.022093	0.025032	0.027657	0.029202	0.024433	0.015664	0.005048	0.000004	0.018149	0.000759	0.014638	0.005614	0.025878
W	CH4_IDLE	0	0	0	0	0.00519	0.003531	0.00282	0.021961	0.008295	0	0	0.07391	0
W	CH4_RUN	0.001794	0.003567	0.002799	0.003238	0.00807	0.006684	0.001295	0.029752	0.006249	1.123274	0.352453	0.004197	0.009074
W	CH4_STR	0.052063	0.070552	0.07157	0.083127	0.015113	0.009609	0.007073	0	0.023271	0.001178	0.298111	0.007121	0.024106
W	CO_IDLE	0	0	0	0	0.186633	0.146834	0.402301	6.756162	0.591555	0	0	3.034974	0
W	CO_RUNE	0.520608	0.826755	0.69512	0.738849	0.733063	0.590585	0.192779	0.345291	0.70248	8.267581	21.43854	0.332391	0.879153
W	CO_STRE	2.528054	2.755293	3.241069	3.59019	1.155648	0.732485	0.835657	0.004225	2.649564	0.084928	10.47293	1.136864	2.227051
W	CO2_NBK	0	0	0	0	8.86563	13.52648	73.22082	1101.754	85.91109	0	0	336.1521	0
W	CO2_NBK	237.721	284.9318	304.0672	365.8876	791.3157	781.1855	1042.248	1374.344	1439.163	1618.249	218.1931	980.9161	1505.12
W	CO2_NBK	51.44589	62.19801	66.91521	79.89194	12.05798	8.887939	6.829786	0.044278	19.69186	0.859657	64.69966	5.647863	18.71524
W	NOX_IDLE	0	0	0	0	0.055269	0.08628	0.429305	5.821172	0.348822	0	0	2.725677	0
W	NOX_RUN	0.034417	0.075313	0.063459	0.075249	0.688969	0.780665	1.463417	2.634676	1.287176	0.70748	1.250068	3.399713	1.246075
W	NOX_STR	0.190852	0.252914	0.282535	0.336209	0.344241	0.223321	1.83074	2.280443	0.838125	0.009643	0.292082	1.141945	0.263406
W	PM10_IDL	0	0	0	0	0.000809	0.001317	0.000371	0.00273	0.000127	0	0	0.003349	0
W	PM10_PM	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034	0.061241	0.13034	0.074176	0.01176	0.7448	0.13034
W	PM10_PM	0.008	0.008	0.008	0.008	0.009715	0.010605	0.012	0.035702	0.012	0.031607	0.004	0.01051	0.013066
W	PM10_RU	0.001371	0.001697	0.00139	0.001483	0.009814	0.014558	0.006892	0.025391	0.007232	0.005175	0.002094	0.020444	0.020613
W	PM10_STI	0.001692	0.002188	0.001715	0.001844	0.000251	0.000136	0.000077	0	0.000193	0.000006	0.00306	0.000077	0.000264
W	PM25_IDL	0	0	0	0	0.000774	0.00126	0.000355	0.002612	0.000121	0	0	0.003204	0
W	PM25_PM	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586	0.026246	0.05586	0.03179	0.00504	0.3192	0.05586
W	PM25_PM	0.002	0.002	0.002	0.002	0.002429	0.002651	0.003	0.008925	0.003	0.007902	0.001	0.002627	0.003267
W	PM25_RU	0.001263	0.001561	0.00128	0.001368	0.009341	0.013901	0.00659	0.024293	0.006901	0.004951	0.001957	0.01954	0.019677
W	PM25_STI	0.001556	0.002012	0.001577	0.001696	0.000231	0.000125	0.000071	0	0.000177	0.000006	0.002879	0.00007	0.000243
W	ROG_DIU	0.014718	0.02992	0.024325	0.027963	0.000732	0.000437	0.000107	0.000001	0.000687	0.000029	0.212754	0.000172	0.217605
W	ROG_HTS	0.09764	0.175163	0.125118	0.14039	0.081655	0.047695	0.014439	0.000076	0.02397	0.000873	0.843614	0.003765	0.060262
W	ROG_IDL	0	0	0	0	0.021246	0.016868	0.01517	0.4114	0.0487	0	0	0.332493	0
W	ROG_RES	0.016938	0.033168	0.028782	0.033143	0.000495	0.000299	0.000073	0	0.00036	0.00002	0.174441	0.000091	0.107424
W	ROG_RUN	0.006893	0.015299	0.011215	0.013556	0.089018	0.104282	0.013872	0.024178	0.035662	0.016169	2.414183	0.055986	0.058661
W	ROG_RUN	0.032373	0.0988	0.068751	0.073447	0.227509	0.118302	0.015255	0.000035	0.076412	0.000225	0.660156	0.008199	0.013639
W	ROG_STF	0.23399	0.347224	0.33366	0.413071	0.075922	0.047752	0.03734	0.000001	0.121121	0.005174	2.30719	0.039535	0.098272
W	SO2_IDLE	0	0	0	0	0.000086	0.00013	0.000694	0.010315	0.000818	0	0	0.003208	0
W	SO2_RUN	0.002351	0.00282	0.003008	0.003616	0.00773	0.00756	0.00991	0.012732	0.013948	0.012021	0.002159	0.009402	0.014778
W	SO2_STR	0.000509	0.000616	0.000662	0.000791	0.000119	0.000088	0.000068	0	0.000195	0.000009	0.00064	0.000056	0.000185
W	TOG_DIUI	0.014718	0.02992	0.024325	0.027963	0.000732	0.000437	0.000107	0.000001	0.000687	0.000029	0.212754	0.000172	0.217605
W	TOG_HTS	0.09764	0.175163	0.125118	0.14039	0.081655	0.047695	0.014439	0.000076	0.02397	0.000873	0.843614	0.003765	0.060262
W	TOG_IDLE	0	0	0	0	0.029983	0.022972	0.019244	0.542963	0.068008	0	0	0.478646	0
W	TOG_RES	0.016938	0.033168	0.028782	0.033143	0.000495	0.000299	0.000073	0	0.00036	0.00002	0.174441	0.000091	0.107424
W	TOG_RUN	0.010009	0.02231	0.016327	0.019681	0.109132	0.121974	0.017072	0.056341	0.049697	1.146521	2.987617	0.066787	0.077238
W	TOG_RUN	0.032373	0.0988	0.068751	0.073447	0.227509	0.118302	0.015255	0.000035	0.076412	0.000225	0.660156	0.008199	0.013639
W	TOG_STR	0.256189	0.380166	0.365315	0.452259	0.083125	0.052283	0.040882	0.000001	0.132613	0.005664	2.51078	0.043286	0.107595
W	N2O_IDLE	0	0	0	0	0.000722	0.001608	0.010875	0.173645	0.011541	0	0	0.044419	0
W	N2O_RUN	0.004399	0.006342	0.005982	0.007845	0.04295	0.065458	0.143257	0.217193	0.113777	0.268873	0.070225	0.113018	0.057389
W	N2O_STR	0.025713	0.029109	0.032174	0.033971	0.026813	0.017149	0.005513	0.000004	0.019829	0.000825	0.016139	0.006189	0.02807

tblRoadDust

RoadPerce	RoadSiltLc	MaterialSil	MaterialMc	MobileAve	MeanVehi	CARB_PM_VMT
100	0.1	4.3	0.5	2.4	40	0

tblWoodstoves

Woodstovr NumberCc NumberCε NumberNc NumberPe Woodstovr WoodstoveWoodMass

tblFireplaces

Fireplaces NumberW NumberG NumberPr NumberNc FireplaceF FireplaceC FireplaceWoodMass

tblConsumerProducts

ROG_EF	ROG_EF	ROG_EF_PesticidesFertilizers
2.14E-05	3.54E-07	5.15E-08

tblAreaCoating

Area_EF_I	Area_Resi	Area_EF_I	Area_Resi	Area_EF_I	Area_NonI	Area_EF_I	Area_NonI	Reapplicat	Area_EF_I	Area_Parking
100	0	150	0	100	0	150	0	10	0	0

tblLandscapeEquipment

NumberSr	NumberSummerDays
0	180

tblEnergyUse

EnergyUse	T24E	NT24E	LightingElc	T24NG	NT24NG
High Turnc	13.96	58.49	5.34	0	0
Other Aspl	0	0	0	0	0
Parking Lc	0	0	0.35	0	0
Unrefrigerz	0.55	1.44	2.17	0	0

tblWater

WaterLanc	WaterLanc	IndoorWat	OutdoorW:	ElectricityI	ElectricityI	ElectricityI	ElectricityI	SepticTanI	AerobicPe	Anaerobic:	AnaDigest	AnaDigest	CogenComb	DigestGas	Percent
High Turnc 1000sqft	3035337	193744.9	2117	111	1272	1911	0	100	0	100	0				
Other Aspl 1000sqft	0	0	2117	111	1272	1911	0	100	0	100	0				
Parking Lc 1000sqft	0	0	2117	111	1272	1911	0	100	0	100	0				
Unrefriger: 1000sqft	99414375	0	2117	111	1272	1911	0	100	0	100	0				

tblSolidWaste

SolidWaste	SolidWaste	SolidWaste	LandfillNo	LandfillCa	LandfillCapture	GasEnergyRecovery
High Turn	1000sqft	119	6	94	0	
Other Aspl	1000sqft	0	6	94	0	
Parking Lc	1000sqft	0	6	94	0	
Unrefriger	1000sqft	404.11	6	94	0	

tblLandUseChange

Vegetation Vegetation AcresBegi AcresEnd CO2peracre

BroadSper NumberOf CO2perTree

tblConstEquipMitigation

ConstMitig	FuelType	Tier	NumberOf	TotalNumt	DPF	OxidationCatalyst
Aerial Lifts	Diesel	Tier 4 Final	14	14	No Change	0
Air Compressor	Diesel	Tier 4 Final	4	4	No Change	0
Concrete/Loaders	Diesel	Tier 4 Final	2	2	No Change	0
Crushing/Feeders	Diesel	Tier 4 Final	4	4	No Change	0
Dumpers/Trucks	Diesel	Tier 4 Final	16	16	No Change	0
Excavators	Diesel	Tier 4 Final	8	8	No Change	0
Forklifts	Diesel	Tier 4 Final	2	2	No Change	0
Graders	Diesel	No Change	0	0	No Change	0
Other Construction	Diesel	Tier 4 Final	2	2	No Change	0
Paving Equipment	Diesel	Tier 4 Final	4	4	No Change	0
Rollers	Diesel	Tier 4 Final	4	4	No Change	0
Rough Terrain	Diesel	Tier 4 Final	4	4	No Change	0
Rubber Tires	Diesel	No Change	0	0	No Change	0
Scrapers	Diesel	No Change	0	0	No Change	0
Skid Steer	Diesel	Tier 4 Final	2	2	No Change	0
Tractors/Loaders	Diesel	Tier 4 Final	4	4	No Change	0

tblConstDustMitigation

SoilStabiliz	SoilStabiliz	SoilStabiliz	ReplaceGr	ReplaceGr	ReplaceGr	WaterExp	WaterExp	WaterExp	WaterExp	WaterUnp	WaterUnp	WaterUnp	WaterUnp	CleanPavedRoad	PercentReduction
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Implement	Implement	Implement	Transit	Sut	Transit	Sut	Transit	Sut	Implement	Implement	Workplace	Workplace	Workplace	Encourage	Encourage	Encourage	Encourage	Market	Cor	Market	Cor	Employee	Employee	Employee	Provide	Ris	Provide	Ris	Implement	Implement	School	Bus	Program	Percent	Family	Using
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0

Landscape	Landscape	Landscape	Landscape	Landscape	Landscape	Landscape	UseLowVOC	UseLowVOC	UseLowVOC	UseLowVOC	UseLowVOC	UseLowVOC	UseLowVOC	UseLowVOC	HearthOnl	NoHearth	UseLowVOC	UseLowVOC	UseLowVOC	PaintPar
0	0	0	0	0	0	0	0	100	0	150	0	100	0	150	0	0	0	0	0	150

KingValue

tblEnergyMitigation

ExceedTitl ExceedTitl InstallHigh InstallHigh OnSiteRer KwhGener KwhGener PercentOfl PercentOfElectricityUseGenerated

tblApplianceMitigation

Appliance	Appliance	PercentImprovement
ClothWasher		30
DishWasher		15
Fan		50
Refrigerator		15

ApplyWater	0	ApplyWater	0	ApplyWater	0	UseRecial	0	PercentOu	0	PercentInc	0	UseGreyW	0	PercentOl	0	PercentInc	0	InstallLowl	0	PercentRe	32	InstallLowl	0	PercentRe	18	InstallLowl	0	PercentRe	20	InstallLowl	0	PercentRe	20	TurfReduc	0	TurfReduc	0	TurfReduc	0	TurfReduc	0	UseWaterf	0	UseWaterf	6.1	WaterEffic	0	MAWA	0	ETWU	0
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InstituteRe InstituteRecyclingAndCompostingServicesWastePercentReduction

tblOperationalOffRoadEquipment

OperOffRc	OperOffRc	OperHours	OperDays	OperHorse	OperLoad	OperFuelType
Forklifts	5	4	365	93	0.2	CNG
Off-Highw	2	8	365	300	0.39	Diesel

tblFleetMix

FleetMixLc	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High Turn	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.00057	0.024535	0.000337	0.002451
Other Aspl	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.00057	0.024535	0.000337	0.002451
Parking Lc	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.00057	0.024535	0.000337	0.002451
Unrefriger	0.34835	0.03453	0.110022	0.068577	0.012801	0.003159	0.008317	0.396712	0.000484	0.000348	0.014996	0.000206	0.001498

tblStationaryGeneratorsPumpsUse

Generator:	NumberOf	Generator:	HorsePow	Load_Fact	HoursPerC	HoursPerY	GeneratorsPumpsEquipmentDescription
Emergenc:	1	Diesel	350	0.73	1	50	Emergency Generator - Diesel (300 - 600 HP)

tblStationaryBoilersUse

BoilerEqui NumberOf BoilerFuel BoilerRatir DailyHeatI AnnualHeε BoilerEquipmentDescription

tblStationaryUserDefined

UserDefintUserDefintOG_lb_d TOG_tpy ROG_lb_dROG_tpy CO_lb_daCO_tpy NOX_lb_dNOX_tpy SO2_lb_dSO2_tpy PM10_lb_rPM10_tpy PM2_5_lb PM2_5_tp CO2_lb_dCO2_tpy CH4_lb_dCH4_tpy

tblStationaryGeneratorsPumpsEF

Generator:	TOG_EF	TOG_EF_ROG_EF	ROG_EF_CO_EF	CO_EF_U	NOX_EF	NOX_EF_SO2_EF	SO2_EF_IPM10_EF	PM10_EF_PM2_5_EI	PM2_5_EI	CO2_EF	CO2_EF_I	CH4_EF	CH4_EF_UOM					
Emergency:	0.00247	lb/hp-hr	0.002248	lb/hp-hr	2.6	g/hp-hr	2.85	g/hp-hr	0.0049	g/hp-hr	0.15	g/hp-hr	0.15	g/hp-hr	1.15	lb/hp-hr	0.073134	g/hp-hr

BoilerEqui TOG_EF TOG_EF_ROG_EF ROG_EF_CO_EF CO_EF_U NOX_EF NOX_EF_SO2_EF SO2_EF_IPM10_EF PM10_EF_PM2_5_EI PM2_5_EI CO2_EF CO2_EF_I CH4_EF CH4_EF_UOM

SubModul	Phase	Nam Season	Remarks
	1		Project specific information
	3		Project specific information
	5	Demolition	Project specific information
	14		Project specific information
	17		Project specific information
	18		Project specific information
	19		Project specific information
	25		Project specific information
	28		Project specific information
	29		Project specific information
	32		Project specific information
	34		Project specific information
	35		