

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Existing Conditions - 1477 Huntington Ave
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.35	1000sqft	0.84	8,350.00	0
Parking Lot	49.68	1000sqft	1.14	49,677.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage adjusted to represent project site.
- Construction Phase - Construction not modeled.
- Grading -
- Vehicle Trips - Trip generation rate adjusted based on project-specific traffic report by Fehr and Peers.
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	8/30/2022	8/1/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	8/1/2022

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tblLandUse	LotAcreage	0.19	0.84
tblVehicleTrips	ST_TR	2.21	15.81
tblVehicleTrips	SU_TR	0.70	15.81
tblVehicleTrips	WD_TR	9.74	15.81

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	9-30-2022	0.0057	0.0057
		Highest	0.0057	0.0057

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	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003
Energy	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	19.4435	19.4435	1.9300e-003	3.7000e-004	19.6021
Mobile	0.0559	0.0633	0.5229	1.0800e-003	0.1163	8.0000e-004	0.1171	0.0311	7.5000e-004	0.0318	0.0000	101.6593	101.6593	6.6700e-003	4.8900e-003	103.2831
Waste						0.0000	0.0000		0.0000	0.0000	1.5772	0.0000	1.5772	0.0932	0.0000	3.9075
Water						0.0000	0.0000		0.0000	0.0000	0.4708	1.0376	1.5084	0.0485	1.1600e-003	3.0679
Total	0.0980	0.0711	0.5300	1.1300e-003	0.1163	1.4000e-003	0.1177	0.0311	1.3500e-003	0.0324	2.0481	122.1414	124.1894	0.1503	6.4200e-003	129.8617

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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	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003
Energy	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	19.4435	19.4435	1.9300e-003	3.7000e-004	19.6021
Mobile	0.0559	0.0633	0.5229	1.0800e-003	0.1163	8.0000e-004	0.1171	0.0311	7.5000e-004	0.0318	0.0000	101.6593	101.6593	6.6700e-003	4.8900e-003	103.2831
Waste						0.0000	0.0000		0.0000	0.0000	1.5772	0.0000	1.5772	0.0932	0.0000	3.9075
Water						0.0000	0.0000		0.0000	0.0000	0.4708	0.9786	1.4495	0.0485	1.1600e-003	3.0084
Total	0.0980	0.0711	0.5300	1.1300e-003	0.1163	1.4000e-003	0.1177	0.0311	1.3500e-003	0.0324	2.0481	122.0825	124.1305	0.1503	6.4200e-003	129.8022

	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	0.05	0.05	0.01	0.00	0.05

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/1/2022	5	1	

Acres of Grading (Site Preparation Phase): 0.94

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Acres of Grading (Grading Phase): 0

Acres of Paving: 1.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2022

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					3.1300e-003	0.0000	3.1300e-003	1.5000e-003	0.0000	1.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	7.3100e-003	3.5500e-003	1.0000e-005		3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004	0.0000	0.7558	0.7558	2.4000e-004	0.0000	0.7619
Total	6.6000e-004	7.3100e-003	3.5500e-003	1.0000e-005	3.1300e-003	3.1000e-004	3.4400e-003	1.5000e-003	2.9000e-004	1.7900e-003	0.0000	0.7558	0.7558	2.4000e-004	0.0000	0.7619

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0254	0.0254	0.0000	0.0000	0.0257
Total	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0254	0.0254	0.0000	0.0000	0.0257

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3.2 Site Preparation - 2022

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					3.1300e-003	0.0000	3.1300e-003	1.5000e-003	0.0000	1.5000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6000e-004	7.3100e-003	3.5500e-003	1.0000e-005		3.1000e-004	3.1000e-004		2.9000e-004	2.9000e-004	0.0000	0.7558	0.7558	2.4000e-004	0.0000	0.7619
Total	6.6000e-004	7.3100e-003	3.5500e-003	1.0000e-005	3.1300e-003	3.1000e-004	3.4400e-003	1.5000e-003	2.9000e-004	1.7900e-003	0.0000	0.7558	0.7558	2.4000e-004	0.0000	0.7619

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0254	0.0254	0.0000	0.0000	0.0257
Total	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0254	0.0254	0.0000	0.0000	0.0257

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0559	0.0633	0.5229	1.0800e-003	0.1163	8.0000e-004	0.1171	0.0311	7.5000e-004	0.0318	0.0000	101.6593	101.6593	6.6700e-003	4.8900e-003	103.2831
Unmitigated	0.0559	0.0633	0.5229	1.0800e-003	0.1163	8.0000e-004	0.1171	0.0311	7.5000e-004	0.0318	0.0000	101.6593	101.6593	6.6700e-003	4.8900e-003	103.2831

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.01	132.01	132.01	315,480	315,480
Parking Lot	0.00	0.00	0.00		
Total	132.01	132.01	132.01	315,480	315,480

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.9105	10.9105	1.7700e-003	2.1000e-004	11.0184
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.9105	10.9105	1.7700e-003	2.1000e-004	11.0184
NaturalGas Mitigated	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837
NaturalGas Unmitigated	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	159903	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	159903	8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.6000e-004	7.8400e-003	6.5800e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	8.5330	8.5330	1.6000e-004	1.6000e-004	8.5837

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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			
General Office Building	100534	9.3018	1.5000e-003	1.8000e-004	9.3938
Parking Lot	17386.9	1.6087	2.6000e-004	3.0000e-005	1.6246
Total		10.9105	1.7600e-003	2.1000e-004	11.0184

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	100534	9.3018	1.5000e-003	1.8000e-004	9.3938
Parking Lot	17386.9	1.6087	2.6000e-004	3.0000e-005	1.6246
Total		10.9105	1.7600e-003	2.1000e-004	11.0184

6.0 Area Detail

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6.1 Mitigation Measures Area

	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	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003
Unmitigated	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003

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	5.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003
Total	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003

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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	5.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0358					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003
Total	0.0413	0.0000	5.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0400e-003	1.0400e-003	0.0000	0.0000	1.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.4495	0.0485	1.1600e-003	3.0084
Unmitigated	1.5084	0.0485	1.1600e-003	3.0679

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.48408 / 0.909595	1.5084	0.0485	1.1600e-003	3.0679
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1.5084	0.0485	1.1600e-003	3.0679

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.48408 / 0.727676	1.4495	0.0485	1.1600e-003	3.0084
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		1.4495	0.0485	1.1600e-003	3.0084

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.5772	0.0932	0.0000	3.9075
Unmitigated	1.5772	0.0932	0.0000	3.9075

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.77	1.5772	0.0932	0.0000	3.9075
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.5772	0.0932	0.0000	3.9075

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.77	1.5772	0.0932	0.0000	3.9075
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		1.5772	0.0932	0.0000	3.9075

9.0 Operational Offroad

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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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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11.0 Vegetation

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Existing Conditions - 1477 Huntington Ave
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.35	1000sqft	0.84	8,350.00	0
Parking Lot	49.68	1000sqft	1.14	49,677.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage adjusted to represent project site.
- Construction Phase - Construction not modeled.
- Grading -
- Vehicle Trips - Trip generation rate adjusted based on project-specific traffic report by Fehr and Peers.
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	8/30/2022	8/1/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	8/1/2022

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	0.19	0.84
tblVehicleTrips	ST_TR	2.21	15.81
tblVehicleTrips	SU_TR	0.70	15.81
tblVehicleTrips	WD_TR	9.74	15.81

2.0 Emissions Summary

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Area	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Energy	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Mobile	0.3412	0.3197	2.8660	6.2800e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		649.0286	649.0286	0.0378	0.0281	658.3463
Total	0.5722	0.3627	2.9080	6.5400e-003	0.6640	7.7000e-003	0.6717	0.1769	7.4000e-003	0.1843		700.5811	700.5811	0.0388	0.0290	710.2060

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	lb/day										lb/day					
Area	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Energy	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Mobile	0.3412	0.3197	2.8660	6.2800e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		649.0286	649.0286	0.0378	0.0281	658.3463
Total	0.5722	0.3627	2.9080	6.5400e-003	0.6640	7.7000e-003	0.6717	0.1769	7.4000e-003	0.1843		700.5811	700.5811	0.0388	0.0290	710.2060

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/1/2022	5	1	

Acres of Grading (Site Preparation Phase): 0.94

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2662	0.6225	6.8887	3.0041	0.5727	3.5768		1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2662	0.6225	6.8887	3.0041	0.5727	3.5768	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	0.3412	0.3197	2.8660	6.2800e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		649.0286	649.0286	0.0378	0.0281	658.3463
Unmitigated	0.3412	0.3197	2.8660	6.2800e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		649.0286	649.0286	0.0378	0.0281	658.3463

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.01	132.01	132.01	315,480	315,480
Parking Lot	0.00	0.00	0.00		
Total	132.01	132.01	132.01	315,480	315,480

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
NaturalGas Unmitigated	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	438.089	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.438089	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

6.0 Area Detail

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Unmitigated	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

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	lb/day										lb/day					
Architectural Coating	0.0295					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.5000e-004	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Total	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	0.0295					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.5000e-004	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Total	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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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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11.0 Vegetation

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Existing Conditions - 1477 Huntington Ave
Bay Area AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.35	1000sqft	0.84	8,350.00	0
Parking Lot	49.68	1000sqft	1.14	49,677.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage adjusted to represent project site.
- Construction Phase - Construction not modeled.
- Grading -
- Vehicle Trips - Trip generation rate adjusted based on project-specific traffic report by Fehr and Peers.
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	8/30/2022	8/1/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	8/1/2022

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblLandUse	LotAcreage	0.19	0.84
tblVehicleTrips	ST_TR	2.21	15.81
tblVehicleTrips	SU_TR	0.70	15.81
tblVehicleTrips	WD_TR	9.74	15.81

2.0 Emissions Summary

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Area	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Energy	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Mobile	0.3077	0.3679	3.0643	5.9200e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		612.8179	612.8179	0.0428	0.0308	623.0672
Total	0.5388	0.4109	3.1063	6.1800e-003	0.6640	7.7000e-003	0.6717	0.1769	7.4000e-003	0.1843		664.3705	664.3705	0.0438	0.0318	674.9269

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	lb/day										lb/day					
Area	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Energy	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Mobile	0.3077	0.3679	3.0643	5.9200e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		612.8179	612.8179	0.0428	0.0308	623.0672
Total	0.5388	0.4109	3.1063	6.1800e-003	0.6640	7.7000e-003	0.6717	0.1769	7.4000e-003	0.1843		664.3705	664.3705	0.0438	0.0318	674.9269

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2022	8/1/2022	5	1	

Acres of Grading (Site Preparation Phase): 0.94

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.14

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2662	0.6225	6.8887	3.0041	0.5727	3.5768		1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2662	0.6225	6.8887	3.0041	0.5727	3.5768	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	lb/day										lb/day					
Mitigated	0.3077	0.3679	3.0643	5.9200e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		612.8179	612.8179	0.0428	0.0308	623.0672
Unmitigated	0.3077	0.3679	3.0643	5.9200e-003	0.6640	4.4200e-003	0.6684	0.1769	4.1200e-003	0.1810		612.8179	612.8179	0.0428	0.0308	623.0672

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.01	132.01	132.01	315,480	315,480
Parking Lot	0.00	0.00	0.00		
Total	132.01	132.01	132.01	315,480	315,480

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
NaturalGas Unmitigated	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	438.089	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.438089	4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.7200e-003	0.0430	0.0361	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.5399	51.5399	9.9000e-004	9.4000e-004	51.8462

6.0 Area Detail

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	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	lb/day										lb/day					
Mitigated	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Unmitigated	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

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	lb/day										lb/day					
Architectural Coating	0.0295					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.5000e-004	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Total	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	0.0295					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.5000e-004	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135
Total	0.2264	5.0000e-005	5.9200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0127	0.0127	3.0000e-005		0.0135

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Existing Conditions - 1477 Huntington Ave - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

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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11.0 Vegetation

1477 Huntington Avenue Project - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1477 Huntington Avenue Project
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	262.00	Dwelling Unit	1.98	262,000.00	749
Enclosed Parking with Elevator	307.00	Space	0.00	89,367.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage updated per site plan.
- Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.
- Grading -
- Demolition -
- Trips and VMT - Site prep and grading haul trip lengths adjusted, consistent with applicant-provided questionnaire.
- Vehicle Trips - Trip generation rate updated, consistent with project-specific traffic report prepared by Fehr and Peers.
- Mobile Land Use Mitigation - Project would increase transit accessibility, and improve pedestrian network on- and off-site
- Area Mitigation -
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

1477 Huntington Avenue Project - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	200.00	220.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/10/2023	11/3/2023
tblConstructionPhase	PhaseEndDate	6/12/2023	10/20/2023
tblConstructionPhase	PhaseEndDate	8/26/2022	9/23/2022
tblConstructionPhase	PhaseEndDate	9/5/2022	11/18/2022
tblConstructionPhase	PhaseEndDate	6/26/2023	12/16/2022
tblConstructionPhase	PhaseEndDate	8/30/2022	10/21/2022
tblConstructionPhase	PhaseStartDate	6/27/2023	12/31/2022
tblConstructionPhase	PhaseStartDate	9/6/2022	12/17/2022
tblConstructionPhase	PhaseStartDate	8/31/2022	10/22/2022
tblConstructionPhase	PhaseStartDate	6/13/2023	11/19/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	9/24/2022
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	1,750.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	122,800.00	89,367.00
tblLandUse	LotAcreage	6.89	1.98
tblLandUse	LotAcreage	2.76	0.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	ST_TR	4.91	3.90
tblVehicleTrips	SU_TR	4.09	3.90
tblVehicleTrips	WD_TR	5.44	3.90

1477 Huntington Avenue Project - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
2022	0.0856	0.9141	0.6604	1.7300e-003	0.1645	0.0382	0.2026	0.0723	0.0355	0.1078	0.0000	156.6247	156.6247	0.0287	8.1200e-003	159.7636
2023	2.1222	1.6239	2.2222	5.4700e-003	0.2563	0.0642	0.3204	0.0689	0.0622	0.1310	0.0000	485.5039	485.5039	0.0410	0.0181	491.9097
Maximum	2.1222	1.6239	2.2222	5.4700e-003	0.2563	0.0642	0.3204	0.0723	0.0622	0.1310	0.0000	485.5039	485.5039	0.0410	0.0181	491.9097

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					
2022	0.0856	0.9141	0.6604	1.7300e-003	0.1645	0.0382	0.2026	0.0723	0.0355	0.1078	0.0000	156.6246	156.6246	0.0287	8.1200e-003	159.7635
2023	2.1222	1.6239	2.2222	5.4700e-003	0.2563	0.0642	0.3204	0.0689	0.0622	0.1310	0.0000	485.5036	485.5036	0.0410	0.0181	491.9094
Maximum	2.1222	1.6239	2.2222	5.4700e-003	0.2563	0.0642	0.3204	0.0723	0.0622	0.1310	0.0000	485.5036	485.5036	0.0410	0.0181	491.9094

1477 Huntington Avenue Project - Bay Area AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	0.6501	0.6501
2	11-1-2022	1-31-2023	0.7384	0.7384
3	2-1-2023	4-30-2023	1.1080	1.1080
4	5-1-2023	7-31-2023	1.1405	1.1405
5	8-1-2023	9-30-2023	0.7562	0.7562
		Highest	1.1405	1.1405

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	1.8786	0.0363	2.7798	1.7600e-003		0.1298	0.1298		0.1298	0.1298	11.9445	8.0894	20.0339	0.0223	7.8000e-004	20.8239
Energy	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	257.2358	257.2358	0.0248	4.8900e-003	259.3137
Mobile	0.4258	0.4774	3.9468	8.1100e-003	0.8698	6.0400e-003	0.8759	0.2324	5.6300e-003	0.2380	0.0000	761.2844	761.2844	0.0506	0.0369	773.5482
Waste						0.0000	0.0000		0.0000	0.0000	24.4645	0.0000	24.4645	1.4458	0.0000	60.6097
Water						0.0000	0.0000		0.0000	0.0000	5.4156	12.0312	17.4469	0.5582	0.0134	35.3857
Total	2.3163	0.6157	6.7700	0.0105	0.8698	0.1441	1.0139	0.2324	0.1437	0.3761	41.8246	1,038.6409	1,080.4655	2.1016	0.0560	1,149.6811

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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	1.2740	0.0224	1.9474	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1832	3.1832	3.0600e-003	0.0000	3.2598
Energy	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	257.2358	257.2358	0.0248	4.8900e-003	259.3137
Mobile	0.4081	0.4439	3.6741	7.3800e-003	0.7881	5.5400e-003	0.7937	0.2106	5.1600e-003	0.2157	0.0000	692.0675	692.0675	0.0478	0.0344	703.5071
Waste						0.0000	0.0000		0.0000	0.0000	24.4645	0.0000	24.4645	1.4458	0.0000	60.6097
Water						0.0000	0.0000		0.0000	0.0000	5.4156	11.3342	16.7499	0.5581	0.0134	34.6818
Total	1.6941	0.5682	5.6649	8.1300e-003	0.7881	0.0246	0.8127	0.2106	0.0242	0.2347	29.8801	963.8208	993.7009	2.0795	0.0526	1,061.3720

	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	26.86	7.70	16.32	22.72	9.39	82.95	19.85	9.39	83.16	37.58	28.56	7.20	8.03	1.05	5.93	7.68

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	9/23/2022	5	40	
2	Site Preparation	Site Preparation	9/24/2022	10/21/2022	5	20	
3	Grading	Grading	10/22/2022	11/18/2022	5	20	

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4	Building Construction	Building Construction	12/17/2022	10/20/2023	5	220
5	Paving	Paving	11/19/2022	12/16/2022	5	20
6	Architectural Coating	Architectural Coating	12/31/2022	11/3/2023	5	220

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 530,550; Residential Outdoor: 176,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,362 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	0.00	32.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	219.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	226.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

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					3.4200e-003	0.0000	3.4200e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	3.4200e-003	0.0168	0.0202	5.2000e-004	0.0157	0.0162	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239

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3.2 Demolition - 2022

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	7.0000e-005	2.7500e-003	5.9000e-004	1.0000e-005	2.7000e-004	2.0000e-005	3.0000e-004	7.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0030	1.0030	3.0000e-005	1.6000e-004	1.0511
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.1000e-004	6.2200e-003	2.0000e-005	2.0500e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6523	1.6523	5.0000e-005	5.0000e-005	1.6678
Total	7.8000e-004	3.2600e-003	6.8100e-003	3.0000e-005	2.3200e-003	3.0000e-005	2.3700e-003	6.2000e-004	3.0000e-005	6.6000e-004	0.0000	2.6553	2.6553	8.0000e-005	2.1000e-004	2.7189

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					3.4200e-003	0.0000	3.4200e-003	5.2000e-004	0.0000	5.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	3.4200e-003	0.0168	0.0202	5.2000e-004	0.0157	0.0162	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239

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3.2 Demolition - 2022

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	7.0000e-005	2.7500e-003	5.9000e-004	1.0000e-005	2.7000e-004	2.0000e-005	3.0000e-004	7.0000e-005	2.0000e-005	1.0000e-004	0.0000	1.0030	1.0030	3.0000e-005	1.6000e-004	1.0511
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	5.1000e-004	6.2200e-003	2.0000e-005	2.0500e-003	1.0000e-005	2.0700e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6523	1.6523	5.0000e-005	5.0000e-005	1.6678
Total	7.8000e-004	3.2600e-003	6.8100e-003	3.0000e-005	2.3200e-003	3.0000e-005	2.3700e-003	6.2000e-004	3.0000e-005	6.6000e-004	0.0000	2.6553	2.6553	8.0000e-005	2.1000e-004	2.7189

3.3 Site Preparation - 2022

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					0.0627	0.0000	0.0627	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004		6.2300e-003	6.2300e-003		5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0627	6.2300e-003	0.0690	0.0301	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375

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3.3 Site Preparation - 2022

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	9.2000e-004	0.0357	6.5700e-003	1.4000e-004	3.7000e-003	3.4000e-004	4.0400e-003	1.0200e-003	3.2000e-004	1.3400e-003	0.0000	13.4532	13.4532	4.5000e-004	2.1300e-003	14.0993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.9100e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5084	0.5084	2.0000e-005	1.0000e-005	0.5132
Total	1.1400e-003	0.0359	8.4800e-003	1.5000e-004	4.3300e-003	3.4000e-004	4.6800e-003	1.1900e-003	3.2000e-004	1.5100e-003	0.0000	13.9616	13.9616	4.7000e-004	2.1400e-003	14.6125

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					0.0627	0.0000	0.0627	0.0301	0.0000	0.0301	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004		6.2300e-003	6.2300e-003		5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0627	6.2300e-003	0.0690	0.0301	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375

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3.3 Site Preparation - 2022

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	9.2000e-004	0.0357	6.5700e-003	1.4000e-004	3.7000e-003	3.4000e-004	4.0400e-003	1.0200e-003	3.2000e-004	1.3400e-003	0.0000	13.4532	13.4532	4.5000e-004	2.1300e-003	14.0993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.6000e-004	1.9100e-003	1.0000e-005	6.3000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5084	0.5084	2.0000e-005	1.0000e-005	0.5132
Total	1.1400e-003	0.0359	8.4800e-003	1.5000e-004	4.3300e-003	3.4000e-004	4.6800e-003	1.1900e-003	3.2000e-004	1.5100e-003	0.0000	13.9616	13.9616	4.7000e-004	2.1400e-003	14.6125

3.4 Grading - 2022

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					0.0711	0.0000	0.0711	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0711	7.4200e-003	0.0785	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491

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3.4 Grading - 2022

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	2.0900e-003	0.0815	0.0150	3.1000e-004	8.4500e-003	7.7000e-004	9.2200e-003	2.3200e-003	7.4000e-004	3.0600e-003	0.0000	30.7150	30.7150	1.0200e-003	4.8700e-003	32.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.0000e-004	2.3900e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6355	0.6355	2.0000e-005	2.0000e-005	0.6415
Total	2.3600e-003	0.0817	0.0174	3.2000e-004	9.2400e-003	7.7000e-004	0.0100	2.5300e-003	7.4000e-004	3.2700e-003	0.0000	31.3505	31.3505	1.0400e-003	4.8900e-003	32.8318

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					0.0711	0.0000	0.0711	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004		7.4200e-003	7.4200e-003		6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0711	7.4200e-003	0.0785	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491

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3.4 Grading - 2022

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	2.0900e-003	0.0815	0.0150	3.1000e-004	8.4500e-003	7.7000e-004	9.2200e-003	2.3200e-003	7.4000e-004	3.0600e-003	0.0000	30.7150	30.7150	1.0200e-003	4.8700e-003	32.1903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.0000e-004	2.3900e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6355	0.6355	2.0000e-005	2.0000e-005	0.6415
Total	2.3600e-003	0.0817	0.0174	3.2000e-004	9.2400e-003	7.7000e-004	0.0100	2.5300e-003	7.4000e-004	3.2700e-003	0.0000	31.3505	31.3505	1.0400e-003	4.8900e-003	32.8318

3.5 Building Construction - 2022

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	8.2400e-003	0.0625	0.0636	1.1000e-004		2.9400e-003	2.9400e-003		2.8400e-003	2.8400e-003	0.0000	9.0789	9.0789	1.5800e-003	0.0000	9.1184
Total	8.2400e-003	0.0625	0.0636	1.1000e-004		2.9400e-003	2.9400e-003		2.8400e-003	2.8400e-003	0.0000	9.0789	9.0789	1.5800e-003	0.0000	9.1184

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3.5 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0120	3.5000e-003	5.0000e-005	1.4100e-003	1.2000e-004	1.5300e-003	4.1000e-004	1.2000e-004	5.3000e-004	0.0000	4.4280	4.4280	1.0000e-004	6.6000e-004	4.6260
Worker	3.1000e-003	2.2400e-003	0.0270	8.0000e-005	8.9300e-003	5.0000e-005	8.9800e-003	2.3800e-003	4.0000e-005	2.4200e-003	0.0000	7.1813	7.1813	2.2000e-004	2.1000e-004	7.2486
Total	3.5600e-003	0.0143	0.0305	1.3000e-004	0.0103	1.7000e-004	0.0105	2.7900e-003	1.6000e-004	2.9500e-003	0.0000	11.6093	11.6093	3.2000e-004	8.7000e-004	11.8747

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	8.2400e-003	0.0625	0.0636	1.1000e-004		2.9400e-003	2.9400e-003		2.8400e-003	2.8400e-003	0.0000	9.0788	9.0788	1.5800e-003	0.0000	9.1184
Total	8.2400e-003	0.0625	0.0636	1.1000e-004		2.9400e-003	2.9400e-003		2.8400e-003	2.8400e-003	0.0000	9.0788	9.0788	1.5800e-003	0.0000	9.1184

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3.5 Building Construction - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-004	0.0120	3.5000e-003	5.0000e-005	1.4100e-003	1.2000e-004	1.5300e-003	4.1000e-004	1.2000e-004	5.3000e-004	0.0000	4.4280	4.4280	1.0000e-004	6.6000e-004	4.6260
Worker	3.1000e-003	2.2400e-003	0.0270	8.0000e-005	8.9300e-003	5.0000e-005	8.9800e-003	2.3800e-003	4.0000e-005	2.4200e-003	0.0000	7.1813	7.1813	2.2000e-004	2.1000e-004	7.2486
Total	3.5600e-003	0.0143	0.0305	1.3000e-004	0.0103	1.7000e-004	0.0105	2.7900e-003	1.6000e-004	2.9500e-003	0.0000	11.6093	11.6093	3.2000e-004	8.7000e-004	11.8747

3.5 Building Construction - 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					
Off-Road	0.1599	1.2296	1.3242	2.3200e-003		0.0540	0.0540		0.0522	0.0522	0.0000	190.6791	190.6791	0.0324	0.0000	191.4886
Total	0.1599	1.2296	1.3242	2.3200e-003		0.0540	0.0540		0.0522	0.0522	0.0000	190.6791	190.6791	0.0324	0.0000	191.4886

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3.5 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8100e-003	0.2007	0.0628	9.2000e-004	0.0296	1.1700e-003	0.0308	8.5700e-003	1.1200e-003	9.6900e-003	0.0000	89.1240	89.1240	1.8200e-003	0.0132	93.0984
Worker	0.0607	0.0416	0.5263	1.5800e-003	0.1875	9.7000e-004	0.1885	0.0499	8.9000e-004	0.0508	0.0000	146.9596	146.9596	4.2300e-003	4.0300e-003	148.2669
Total	0.0655	0.2423	0.5891	2.5000e-003	0.2171	2.1400e-003	0.2193	0.0585	2.0100e-003	0.0605	0.0000	236.0837	236.0837	6.0500e-003	0.0172	241.3653

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	0.1599	1.2296	1.3242	2.3200e-003		0.0540	0.0540		0.0522	0.0522	0.0000	190.6789	190.6789	0.0324	0.0000	191.4883
Total	0.1599	1.2296	1.3242	2.3200e-003		0.0540	0.0540		0.0522	0.0522	0.0000	190.6789	190.6789	0.0324	0.0000	191.4883

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3.5 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8100e-003	0.2007	0.0628	9.2000e-004	0.0296	1.1700e-003	0.0308	8.5700e-003	1.1200e-003	9.6900e-003	0.0000	89.1240	89.1240	1.8200e-003	0.0132	93.0984
Worker	0.0607	0.0416	0.5263	1.5800e-003	0.1875	9.7000e-004	0.1885	0.0499	8.9000e-004	0.0508	0.0000	146.9596	146.9596	4.2300e-003	4.0300e-003	148.2669
Total	0.0655	0.2423	0.5891	2.5000e-003	0.2171	2.1400e-003	0.2193	0.0585	2.0100e-003	0.0605	0.0000	236.0837	236.0837	6.0500e-003	0.0172	241.3653

3.6 Paving - 2022

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	6.8800e-003	0.0677	0.0881	1.4000e-004		3.4700e-003	3.4700e-003		3.2100e-003	3.2100e-003	0.0000	11.7696	11.7696	3.7300e-003	0.0000	11.8629
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.8800e-003	0.0677	0.0881	1.4000e-004		3.4700e-003	3.4700e-003		3.2100e-003	3.2100e-003	0.0000	11.7696	11.7696	3.7300e-003	0.0000	11.8629

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3.6 Paving - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.6000e-004	3.1100e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8262	0.8262	3.0000e-005	2.0000e-005	0.8339
Total	3.6000e-004	2.6000e-004	3.1100e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8262	0.8262	3.0000e-005	2.0000e-005	0.8339

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	6.8800e-003	0.0677	0.0881	1.4000e-004		3.4700e-003	3.4700e-003		3.2100e-003	3.2100e-003	0.0000	11.7696	11.7696	3.7300e-003	0.0000	11.8629
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.8800e-003	0.0677	0.0881	1.4000e-004		3.4700e-003	3.4700e-003		3.2100e-003	3.2100e-003	0.0000	11.7696	11.7696	3.7300e-003	0.0000	11.8629

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3.7 Architectural Coating - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000

3.7 Architectural Coating - 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					
Archit. Coating	1.8630					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.1433	0.1992	3.3000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	28.0858	28.0858	1.6800e-003	0.0000	28.1278
Total	1.8840	0.1433	0.1992	3.3000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	28.0858	28.0858	1.6800e-003	0.0000	28.1278

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	8.6700e-003	0.1098	3.3000e-004	0.0391	2.0000e-004	0.0393	0.0104	1.9000e-004	0.0106	0.0000	30.6553	30.6553	8.8000e-004	8.4000e-004	30.9280
Total	0.0127	8.6700e-003	0.1098	3.3000e-004	0.0391	2.0000e-004	0.0393	0.0104	1.9000e-004	0.0106	0.0000	30.6553	30.6553	8.8000e-004	8.4000e-004	30.9280

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	1.8630					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0211	0.1433	0.1992	3.3000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	28.0858	28.0858	1.6800e-003	0.0000	28.1278
Total	1.8840	0.1433	0.1992	3.3000e-004		7.7900e-003	7.7900e-003		7.7900e-003	7.7900e-003	0.0000	28.0858	28.0858	1.6800e-003	0.0000	28.1278

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0127	8.6700e-003	0.1098	3.3000e-004	0.0391	2.0000e-004	0.0393	0.0104	1.9000e-004	0.0106	0.0000	30.6553	30.6553	8.8000e-004	8.4000e-004	30.9280
Total	0.0127	8.6700e-003	0.1098	3.3000e-004	0.0391	2.0000e-004	0.0393	0.0104	1.9000e-004	0.0106	0.0000	30.6553	30.6553	8.8000e-004	8.4000e-004	30.9280

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

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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	0.4081	0.4439	3.6741	7.3800e-003	0.7881	5.5400e-003	0.7937	0.2106	5.1600e-003	0.2157	0.0000	692.0675	692.0675	0.0478	0.0344	703.5071
Unmitigated	0.4258	0.4774	3.9468	8.1100e-003	0.8698	6.0400e-003	0.8759	0.2324	5.6300e-003	0.2380	0.0000	761.2844	761.2844	0.0506	0.0369	773.5482

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.80	1,021.80	1,021.80	2,359,957	2,138,279
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,021.80	1,021.80	1,021.80	2,359,957	2,138,279

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Enclosed Parking with Elevator	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	139.1914	139.1914	0.0225	2.7300e-003	140.5678
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	139.1914	139.1914	0.0225	2.7300e-003	140.5678
Natural Gas Mitigated	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459
Natural Gas Unmitigated	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.21207e+006	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.21207e+006	0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0119	0.1019	0.0434	6.5000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	118.0444	118.0444	2.2600e-003	2.1600e-003	118.7459

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.01823e+006	94.2104	0.0152	1.8500e-003	95.1420
Enclosed Parking with Elevator	486156	44.9810	7.2800e-003	8.8000e-004	45.4258
Total		139.1914	0.0225	2.7300e-003	140.5678

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.01823e+006	94.2104	0.0152	1.8500e-003	95.1420
Enclosed Parking with Elevator	486156	44.9810	7.2800e-003	8.8000e-004	45.4258
Total		139.1914	0.0225	2.7300e-003	140.5678

6.0 Area Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

No Hearths Installed

	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	1.2740	0.0224	1.9474	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1832	3.1832	3.0600e-003	0.0000	3.2598
Unmitigated	1.8786	0.0363	2.7798	1.7600e-003		0.1298	0.1298		0.1298	0.1298	11.9445	8.0894	20.0339	0.0223	7.8000e-004	20.8239

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.1863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6045	0.0139	0.8324	1.6600e-003		0.1190	0.1190		0.1190	0.1190	11.9445	4.9062	16.8507	0.0192	7.8000e-004	17.5640
Landscaping	0.0587	0.0224	1.9474	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1832	3.1832	3.0600e-003	0.0000	3.2598
Total	1.8786	0.0363	2.7798	1.7600e-003		0.1298	0.1298		0.1298	0.1298	11.9445	8.0894	20.0339	0.0223	7.8000e-004	20.8239

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.1863					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0587	0.0224	1.9474	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1832	3.1832	3.0600e-003	0.0000	3.2598
Total	1.2741	0.0224	1.9474	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1832	3.1832	3.0600e-003	0.0000	3.2598

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.7499	0.5581	0.0134	34.6818
Unmitigated	17.4469	0.5582	0.0134	35.3857

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.0704 / 10.7617	17.4469	0.5582	0.0134	35.3857
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		17.4469	0.5582	0.0134	35.3857

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.0704 / 8.6094	16.7499	0.5581	0.0134	34.6818
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		16.7499	0.5581	0.0134	34.6818

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.4645	1.4458	0.0000	60.6097
Unmitigated	24.4645	1.4458	0.0000	60.6097

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	120.52	24.4645	1.4458	0.0000	60.6097
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		24.4645	1.4458	0.0000	60.6097

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	120.52	24.4645	1.4458	0.0000	60.6097
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		24.4645	1.4458	0.0000	60.6097

9.0 Operational Offroad

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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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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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**1477 Huntington Avenue Project
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	262.00	Dwelling Unit	1.98	262,000.00	749
Enclosed Parking with Elevator	307.00	Space	0.00	89,367.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreage updated per site plan.
- Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.
- Grading -
- Demolition -
- Trips and VMT - Site prep and grading haul trip lengths adjusted, consistent with applicant-provided questionnaire.
- Vehicle Trips - Trip generation rate updated, consistent with project-specific traffic report prepared by Fehr and Peers.
- Mobile Land Use Mitigation - Project would increase transit accessibility, and improve pedestrian network on- and off-site
- Area Mitigation -
- Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	200.00	220.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/10/2023	11/3/2023
tblConstructionPhase	PhaseEndDate	6/12/2023	10/20/2023
tblConstructionPhase	PhaseEndDate	8/26/2022	9/23/2022
tblConstructionPhase	PhaseEndDate	9/5/2022	11/18/2022
tblConstructionPhase	PhaseEndDate	6/26/2023	12/16/2022
tblConstructionPhase	PhaseEndDate	8/30/2022	10/21/2022
tblConstructionPhase	PhaseStartDate	6/27/2023	12/31/2022
tblConstructionPhase	PhaseStartDate	9/6/2022	12/17/2022
tblConstructionPhase	PhaseStartDate	8/31/2022	10/22/2022
tblConstructionPhase	PhaseStartDate	6/13/2023	11/19/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	9/24/2022
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	1,750.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	122,800.00	89,367.00
tblLandUse	LotAcreage	6.89	1.98
tblLandUse	LotAcreage	2.76	0.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	ST_TR	4.91	3.90
tblVehicleTrips	SU_TR	4.09	3.90
tblVehicleTrips	WD_TR	5.44	3.90

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2022	19.6704	24.8541	22.2347	0.0541	8.0613	0.8397	8.8808	3.6894	0.7846	4.4462	0.0000	5,455.8053	5,455.8053	0.7597	0.5381	5,635.1525
2023	19.4308	15.2788	21.4895	0.0530	2.5174	0.6075	3.1249	0.6743	0.5885	1.2628	0.0000	5,193.4879	5,193.4879	0.4257	0.1851	5,259.2886
Maximum	19.6704	24.8541	22.2347	0.0541	8.0613	0.8397	8.8808	3.6894	0.7846	4.4462	0.0000	5,455.8053	5,455.8053	0.7597	0.5381	5,635.1525

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	lb/day										lb/day					
2022	19.6704	24.8541	22.2347	0.0541	8.0613	0.8397	8.8808	3.6894	0.7846	4.4462	0.0000	5,455.8053	5,455.8053	0.7597	0.5381	5,635.1525
2023	19.4308	15.2788	21.4895	0.0530	2.5174	0.6075	3.1249	0.6743	0.5885	1.2628	0.0000	5,193.4879	5,193.4879	0.4257	0.1851	5,259.2886
Maximum	19.6704	24.8541	22.2347	0.0541	8.0613	0.8397	8.8808	3.6894	0.7846	4.4462	0.0000	5,455.8053	5,455.8053	0.7597	0.5381	5,635.1525

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Area	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550
Energy	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Mobile	2.6052	2.4118	21.5918	0.0470	4.9672	0.0332	5.0004	1.3229	0.0309	1.3539		4,859.9618	4,859.9618	0.2861	0.2121	4,930.3073
Total	117.7325	5.6016	185.8262	0.3260	4.9672	20.4082	25.3754	1.3229	20.4059	21.7289	2,193.1617	6,582.8864	8,776.0481	3.3385	0.3802	8,972.7948

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	lb/day										lb/day					
Area	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259
Energy	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Mobile	2.5097	2.2421	19.9901	0.0427	4.5006	0.0305	4.5310	1.1987	0.0284	1.2271		4,417.1197	4,417.1197	0.2693	0.1974	4,482.6610
Total	9.8869	3.0499	41.8654	0.0474	4.5006	0.1955	4.6961	1.1987	0.1934	1.3921	0.0000	5,169.1031	5,169.1031	0.3205	0.2104	5,239.8194

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Percent Reduction	91.60	45.55	77.47	85.46	9.39	99.04	81.49	9.39	99.05	93.59	100.00	21.48	41.10	90.40	44.65	41.60

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	9/23/2022	5	40	
2	Site Preparation	Site Preparation	9/24/2022	10/21/2022	5	20	
3	Grading	Grading	10/22/2022	11/18/2022	5	20	
4	Building Construction	Building Construction	12/17/2022	10/20/2023	5	220	
5	Paving	Paving	11/19/2022	12/16/2022	5	20	
6	Architectural Coating	Architectural Coating	12/31/2022	11/3/2023	5	220	

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 530,550; Residential Outdoor: 176,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,362 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	0.00	32.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	219.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	226.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	lb/day										lb/day					
Fugitive Dust					0.1710	0.0000	0.1710	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1710	0.8379	1.0089	0.0259	0.7829	0.8088		2,323.4168	2,323.4168	0.5921		2,338.2191

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	lb/day										lb/day					
Hauling	3.7700e-003	0.1328	0.0291	5.1000e-004	0.0140	1.2300e-003	0.0152	3.8300e-003	1.1800e-003	5.0200e-003		55.2706	55.2706	1.8200e-003	8.7500e-003	57.9248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0416	0.1556	0.3652	1.4700e-003	0.1208	1.7900e-003	0.1226	0.0322	1.6900e-003	0.0339		152.5188	152.5188	4.4700e-003	0.0112	155.9619

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	lb/day										lb/day					
Fugitive Dust					0.1710	0.0000	0.1710	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1710	0.8379	1.0089	0.0259	0.7829	0.8088	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	lb/day										lb/day					
Hauling	3.7700e-003	0.1328	0.0291	5.1000e-004	0.0140	1.2300e-003	0.0152	3.8300e-003	1.1800e-003	5.0200e-003		55.2706	55.2706	1.8200e-003	8.7500e-003	57.9248
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0416	0.1556	0.3652	1.4700e-003	0.1208	1.7900e-003	0.1226	0.0322	1.6900e-003	0.0339		152.5188	152.5188	4.4700e-003	0.0112	155.9619

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2734	0.0000	6.2734	3.0053	0.0000	3.0053			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2734	0.6225	6.8960	3.0053	0.5727	3.5780		1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0921	3.4396	0.6552	0.0136	0.3828	0.0336	0.4164	0.1049	0.0322	0.1371		1,482.8563	1,482.8563	0.0492	0.2349	1,554.0776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.1153	3.4536	0.8620	0.0142	0.4485	0.0340	0.4825	0.1223	0.0325	0.1548		1,542.7013	1,542.7013	0.0508	0.2364	1,614.4081

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2734	0.0000	6.2734	3.0053	0.0000	3.0053			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2734	0.6225	6.8960	3.0053	0.5727	3.5780	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0921	3.4396	0.6552	0.0136	0.3828	0.0336	0.4164	0.1049	0.0322	0.1371		1,482.8563	1,482.8563	0.0492	0.2349	1,554.0776
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.1153	3.4536	0.8620	0.0142	0.4485	0.0340	0.4825	0.1223	0.0325	0.1548		1,542.7013	1,542.7013	0.0508	0.2364	1,614.4081

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1052	0.7423	7.8475	3.4282	0.6829	4.1111		1,995.4825	1,995.4825	0.6454		2,011.6169

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	lb/day										lb/day					
Hauling	0.2102	7.8530	1.4959	0.0311	0.8739	0.0768	0.9507	0.2395	0.0735	0.3130		3,385.5166	3,385.5166	0.1123	0.5362	3,548.1224
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131
Total	0.2393	7.8705	1.7545	0.0318	0.9561	0.0772	1.0333	0.2613	0.0739	0.3352		3,460.3229	3,460.3229	0.1143	0.5381	3,623.5356

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1052	0.7423	7.8475	3.4282	0.6829	4.1111	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	lb/day										lb/day					
Hauling	0.2102	7.8530	1.4959	0.0311	0.8739	0.0768	0.9507	0.2395	0.0735	0.3130		3,385.5166	3,385.5166	0.1123	0.5362	3,548.1224
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131
Total	0.2393	7.8705	1.7545	0.0318	0.9561	0.0772	1.0333	0.2613	0.0739	0.3352		3,460.3229	3,460.3229	0.1143	0.5381	3,623.5356

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0928	2.3196	0.6890	9.1000e-003	0.2912	0.0247	0.3159	0.0838	0.0236	0.1075		976.0391	976.0391	0.0213	0.1446	1,019.6682
Worker	0.6574	0.3964	5.8424	0.0166	1.8565	9.7000e-003	1.8662	0.4924	8.9300e-003	0.5014		1,690.6223	1,690.6223	0.0461	0.0422	1,704.3370
Total	0.7502	2.7161	6.5314	0.0257	2.1478	0.0344	2.1822	0.5763	0.0326	0.6088		2,666.6615	2,666.6615	0.0673	0.1868	2,724.0052

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0928	2.3196	0.6890	9.1000e-003	0.2912	0.0247	0.3159	0.0838	0.0236	0.1075		976.0391	976.0391	0.0213	0.1446	1,019.6682
Worker	0.6574	0.3964	5.8424	0.0166	1.8565	9.7000e-003	1.8662	0.4924	8.9300e-003	0.5014		1,690.6223	1,690.6223	0.0461	0.0422	1,704.3370
Total	0.7502	2.7161	6.5314	0.0257	2.1478	0.0344	2.1822	0.5763	0.0326	0.6088		2,666.6615	2,666.6615	0.0673	0.1868	2,724.0052

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8443	0.5890	8.7200e-003	0.2912	0.0112	0.3024	0.0838	0.0107	0.0945		935.0824	935.0824	0.0191	0.1382	976.7547
Worker	0.6113	0.3512	5.4026	0.0161	1.8565	9.2100e-003	1.8657	0.4924	8.4800e-003	0.5009		1,647.1896	1,647.1896	0.0415	0.0391	1,659.8733
Total	0.6581	2.1955	5.9916	0.0248	2.1478	0.0204	2.1681	0.5763	0.0192	0.5954		2,582.2720	2,582.2720	0.0607	0.1773	2,636.6281

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0468	1.8443	0.5890	8.7200e-003	0.2912	0.0112	0.3024	0.0838	0.0107	0.0945		935.0824	935.0824	0.0191	0.1382	976.7547
Worker	0.6113	0.3512	5.4026	0.0161	1.8565	9.2100e-003	1.8657	0.4924	8.4800e-003	0.5009		1,647.1896	1,647.1896	0.0415	0.0391	1,659.8733
Total	0.6581	2.1955	5.9916	0.0248	2.1478	0.0204	2.1681	0.5763	0.0192	0.5954		2,582.2720	2,582.2720	0.0607	0.1773	2,636.6281

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	17.1406	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1309	0.0789	1.1633	3.3100e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		336.6283	336.6283	9.1800e-003	8.3900e-003	339.3591
Total	0.1309	0.0789	1.1633	3.3100e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		336.6283	336.6283	9.1800e-003	8.3900e-003	339.3591

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	17.1406	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1309	0.0789	1.1633	3.3100e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		336.6283	336.6283	9.1800e-003	8.3900e-003	339.3591
Total	0.1309	0.0789	1.1633	3.3100e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		336.6283	336.6283	9.1800e-003	8.3900e-003	339.3591

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	17.1277	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1217	0.0699	1.0757	3.2000e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		327.9802	327.9802	8.2700e-003	7.7800e-003	330.5058
Total	0.1217	0.0699	1.0757	3.2000e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		327.9802	327.9802	8.2700e-003	7.7800e-003	330.5058

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	17.1277	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1217	0.0699	1.0757	3.2000e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		327.9802	327.9802	8.2700e-003	7.7800e-003	330.5058
Total	0.1217	0.0699	1.0757	3.2000e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		327.9802	327.9802	8.2700e-003	7.7800e-003	330.5058

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	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	lb/day										lb/day					
Mitigated	2.5097	2.2421	19.9901	0.0427	4.5006	0.0305	4.5310	1.1987	0.0284	1.2271		4,417.1197	4,417.1197	0.2693	0.1974	4,482.6610
Unmitigated	2.6052	2.4118	21.5918	0.0470	4.9672	0.0332	5.0004	1.3229	0.0309	1.3539		4,859.9618	4,859.9618	0.2861	0.2121	4,930.3073

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.80	1,021.80	1,021.80	2,359,957	2,138,279
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,021.80	1,021.80	1,021.80	2,359,957	2,138,279

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Enclosed Parking with Elevator	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
NaturalGas Unmitigated	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6060.46	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.06046	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

6.0 Area Detail

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

No Hearths Installed

	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	lb/day										lb/day					
Mitigated	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259
Unmitigated	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	1.0208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	107.7501	2.3821	142.3592	0.2743		20.2100	20.2100		20.2100	20.2100	2,193.1617	970.9412	3,164.1029	3.0012	0.1550	3,285.3291
Landscaping	0.6525	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199		38.9879	38.9879	0.0375		39.9259
Total	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	1.0208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6525	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199		38.9879	38.9879	0.0375		39.9259
Total	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

1477 Huntington Avenue Project - Bay Area AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	------------	-------------	-------------	-----------

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1477 Huntington Avenue Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	262.00	Dwelling Unit	1.98	262,000.00	749
Enclosed Parking with Elevator	307.00	Space	0.00	89,367.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage updated per site plan.

Construction Phase - Construction phase timing adjusted per applicant-provided questionnaire.

Grading -

Demolition -

Trips and VMT - Site prep and grading haul trip lengths adjusted, consistent with applicant-provided questionnaire.

Vehicle Trips - Trip generation rate updated, consistent with project-specific traffic report prepared by Fehr and Peers.

Mobile Land Use Mitigation - Project would increase transit accessibility, and improve pedestrian network on- and off-site

Area Mitigation -

Water Mitigation - Outdoor water conservation strategy applied to reflect compliance with MWEL0.

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	200.00	220.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	PhaseEndDate	7/10/2023	11/3/2023
tblConstructionPhase	PhaseEndDate	6/12/2023	10/20/2023
tblConstructionPhase	PhaseEndDate	8/26/2022	9/23/2022
tblConstructionPhase	PhaseEndDate	9/5/2022	11/18/2022
tblConstructionPhase	PhaseEndDate	6/26/2023	12/16/2022
tblConstructionPhase	PhaseEndDate	8/30/2022	10/21/2022
tblConstructionPhase	PhaseStartDate	6/27/2023	12/31/2022
tblConstructionPhase	PhaseStartDate	9/6/2022	12/17/2022
tblConstructionPhase	PhaseStartDate	8/31/2022	10/22/2022
tblConstructionPhase	PhaseStartDate	6/13/2023	11/19/2022
tblConstructionPhase	PhaseStartDate	8/27/2022	9/24/2022
tblGrading	MaterialExported	0.00	500.00
tblGrading	MaterialExported	0.00	1,750.00
tblGrading	MaterialImported	0.00	3,500.00
tblLandUse	LandUseSquareFeet	122,800.00	89,367.00
tblLandUse	LotAcreage	6.89	1.98
tblLandUse	LotAcreage	2.76	0.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	ST_TR	4.91	3.90
tblVehicleTrips	SU_TR	4.09	3.90
tblVehicleTrips	WD_TR	5.44	3.90

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2022	19.6863	25.2911	21.9353	0.0526	8.0613	0.8397	8.8808	3.6894	0.7846	4.4463	0.0000	5,451.0479	5,451.0479	0.7598	0.5385	5,630.5181
2023	19.4480	15.4845	21.2359	0.0517	2.5174	0.6076	3.1250	0.6743	0.5885	1.2629	0.0000	5,054.8217	5,054.8217	0.4324	0.1925	5,123.0041
Maximum	19.6863	25.2911	21.9353	0.0526	8.0613	0.8397	8.8808	3.6894	0.7846	4.4463	0.0000	5,451.0479	5,451.0479	0.7598	0.5385	5,630.5181

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	lb/day										lb/day					
2022	19.6863	25.2911	21.9353	0.0526	8.0613	0.8397	8.8808	3.6894	0.7846	4.4463	0.0000	5,451.0479	5,451.0479	0.7598	0.5385	5,630.5181
2023	19.4480	15.4845	21.2359	0.0517	2.5174	0.6076	3.1250	0.6743	0.5885	1.2629	0.0000	5,054.8217	5,054.8217	0.4324	0.1925	5,123.0041
Maximum	19.6863	25.2911	21.9353	0.0526	8.0613	0.8397	8.8808	3.6894	0.7846	4.4463	0.0000	5,451.0479	5,451.0479	0.7598	0.5385	5,630.5181

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Area	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550
Energy	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Mobile	2.3444	2.7761	23.1470	0.0444	4.9672	0.0332	5.0004	1.3229	0.0310	1.3539		4,589.2402	4,589.2402	0.3248	0.2326	4,666.6656
Total	117.4717	5.9659	187.3815	0.3233	4.9672	20.4082	25.3754	1.3229	20.4060	21.7289	2,193.1617	6,312.1648	8,505.3265	3.3772	0.4007	8,709.1531

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	lb/day										lb/day					
Area	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259
Energy	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Mobile	2.2439	2.5820	21.6006	0.0403	4.5006	0.0305	4.5311	1.1987	0.0284	1.2271		4,172.2568	4,172.2568	0.3077	0.2167	4,244.5260
Total	9.6210	3.3897	43.4759	0.0450	4.5006	0.1955	4.6961	1.1987	0.1934	1.3921	0.0000	4,924.2402	4,924.2402	0.3589	0.2298	5,001.6844

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Percent Reduction	91.81	43.18	76.80	86.07	9.39	99.04	81.49	9.39	99.05	93.59	100.00	21.99	42.10	89.37	42.65	42.57

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	9/23/2022	5	40	
2	Site Preparation	Site Preparation	9/24/2022	10/21/2022	5	20	
3	Grading	Grading	10/22/2022	11/18/2022	5	20	
4	Building Construction	Building Construction	12/17/2022	10/20/2023	5	220	
5	Paving	Paving	11/19/2022	12/16/2022	5	20	
6	Architectural Coating	Architectural Coating	12/31/2022	11/3/2023	5	220	

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 530,550; Residential Outdoor: 176,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 5,362 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	5	13.00	0.00	32.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	219.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	500.00	10.80	7.30	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	226.00	43.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	45.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	lb/day										lb/day					
Fugitive Dust					0.1710	0.0000	0.1710	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1710	0.8379	1.0089	0.0259	0.7829	0.8088		2,323.4168	2,323.4168	0.5921		2,338.2191

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1401	0.0296	5.1000e-004	0.0140	1.2400e-003	0.0152	3.8300e-003	1.1800e-003	5.0200e-003		55.2885	55.2885	1.8200e-003	8.7600e-003	57.9437
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0423	0.1683	0.3501	1.4000e-003	0.1208	1.8000e-003	0.1226	0.0322	1.6900e-003	0.0339		145.6262	145.6262	4.8200e-003	0.0116	149.1886

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	lb/day										lb/day					
Fugitive Dust					0.1710	0.0000	0.1710	0.0259	0.0000	0.0259			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241	0.1710	0.8379	1.0089	0.0259	0.7829	0.8088	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	lb/day										lb/day					
Hauling	3.6800e-003	0.1401	0.0296	5.1000e-004	0.0140	1.2400e-003	0.0152	3.8300e-003	1.1800e-003	5.0200e-003		55.2885	55.2885	1.8200e-003	8.7600e-003	57.9437
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0423	0.1683	0.3501	1.4000e-003	0.1208	1.8000e-003	0.1226	0.0322	1.6900e-003	0.0339		145.6262	145.6262	4.8200e-003	0.0116	149.1886

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2734	0.0000	6.2734	3.0053	0.0000	3.0053			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2734	0.6225	6.8960	3.0053	0.5727	3.5780		1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0909	3.6292	0.6608	0.0136	0.3828	0.0337	0.4164	0.1049	0.0322	0.1371		1,483.1008	1,483.1008	0.0491	0.2349	1,554.3362
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.1147	3.6465	0.8581	0.0142	0.4485	0.0340	0.4825	0.1223	0.0325	0.1549		1,538.6932	1,538.6932	0.0510	0.2367	1,610.4870

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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	lb/day										lb/day					
Fugitive Dust					6.2734	0.0000	6.2734	3.0053	0.0000	3.0053			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2734	0.6225	6.8960	3.0053	0.5727	3.5780	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

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	lb/day										lb/day					
Hauling	0.0909	3.6292	0.6608	0.0136	0.3828	0.0337	0.4164	0.1049	0.0322	0.1371		1,483.1008	1,483.1008	0.0491	0.2349	1,554.3362
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.1147	3.6465	0.8581	0.0142	0.4485	0.0340	0.4825	0.1223	0.0325	0.1549		1,538.6932	1,538.6932	0.0510	0.2367	1,610.4870

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1052	0.7423	7.8475	3.4282	0.6829	4.1111		1,995.4825	1,995.4825	0.6454		2,011.6169

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	lb/day										lb/day					
Hauling	0.2075	8.2858	1.5086	0.0311	0.8739	0.0769	0.9508	0.2395	0.0735	0.3130		3,386.0749	3,386.0749	0.1121	0.5364	3,548.7128
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885
Total	0.2372	8.3075	1.7552	0.0318	0.9561	0.0773	1.0334	0.2613	0.0739	0.3352		3,455.5654	3,455.5654	0.1144	0.5385	3,618.9012

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2022

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	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.1052	0.7423	7.8475	3.4282	0.6829	4.1111	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	lb/day										lb/day					
Hauling	0.2075	8.2858	1.5086	0.0311	0.8739	0.0769	0.9508	0.2395	0.0735	0.3130		3,386.0749	3,386.0749	0.1121	0.5364	3,548.7128
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885
Total	0.2372	8.3075	1.7552	0.0318	0.9561	0.0773	1.0334	0.2613	0.0739	0.3352		3,455.5654	3,455.5654	0.1144	0.5385	3,618.9012

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0918	2.4464	0.7130	9.1100e-003	0.2912	0.0248	0.3160	0.0838	0.0237	0.1075		976.4345	976.4345	0.0212	0.1448	1,020.1265
Worker	0.6716	0.4893	5.5727	0.0154	1.8565	9.7000e-003	1.8662	0.4924	8.9300e-003	0.5014		1,570.4862	1,570.4862	0.0522	0.0486	1,586.2590
Total	0.7634	2.9357	6.2857	0.0246	2.1478	0.0345	2.1822	0.5763	0.0326	0.6089		2,546.9206	2,546.9206	0.0733	0.1934	2,606.3855

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2022

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	lb/day										lb/day					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0918	2.4464	0.7130	9.1100e-003	0.2912	0.0248	0.3160	0.0838	0.0237	0.1075		976.4345	976.4345	0.0212	0.1448	1,020.1265
Worker	0.6716	0.4893	5.5727	0.0154	1.8565	9.7000e-003	1.8662	0.4924	8.9300e-003	0.5014		1,570.4862	1,570.4862	0.0522	0.0486	1,586.2590
Total	0.7634	2.9357	6.2857	0.0246	2.1478	0.0345	2.1822	0.5763	0.0326	0.6089		2,546.9206	2,546.9206	0.0733	0.1934	2,606.3855

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0452	1.9516	0.6091	8.7300e-003	0.2912	0.0112	0.3024	0.0838	0.0107	0.0946		936.4199	936.4199	0.0190	0.1386	978.1941
Worker	0.6270	0.4333	5.1744	0.0150	1.8565	9.2100e-003	1.8657	0.4924	8.4800e-003	0.5009		1,530.4336	1,530.4336	0.0472	0.0450	1,545.0187
Total	0.6722	2.3849	5.7835	0.0237	2.1478	0.0204	2.1682	0.5763	0.0192	0.5955		2,466.8536	2,466.8536	0.0662	0.1836	2,523.2128

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

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	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0452	1.9516	0.6091	8.7300e-003	0.2912	0.0112	0.3024	0.0838	0.0107	0.0946		936.4199	936.4199	0.0190	0.1386	978.1941
Worker	0.6270	0.4333	5.1744	0.0150	1.8565	9.2100e-003	1.8657	0.4924	8.4800e-003	0.5009		1,530.4336	1,530.4336	0.0472	0.0450	1,545.0187
Total	0.6722	2.3849	5.7835	0.0237	2.1478	0.0204	2.1682	0.5763	0.0192	0.5955		2,466.8536	2,466.8536	0.0662	0.1836	2,523.2128

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2022

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	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378 ₉	1,297.378 ₉	0.4113		1,307.660 ₈
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.378₉	1,297.378₉	0.4113		1,307.660₈

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	17.1406	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1337	0.0974	1.1096	3.0700e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		312.7074	312.7074	0.0104	9.6700e-003	315.8480
Total	0.1337	0.0974	1.1096	3.0700e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		312.7074	312.7074	0.0104	9.6700e-003	315.8480

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2022

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	17.1406	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1337	0.0974	1.1096	3.0700e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		312.7074	312.7074	0.0104	9.6700e-003	315.8480
Total	0.1337	0.0974	1.1096	3.0700e-003	0.3697	1.9300e-003	0.3716	0.0981	1.7800e-003	0.0998		312.7074	312.7074	0.0104	9.6700e-003	315.8480

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	17.1277	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1248	0.0863	1.0303	2.9800e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		304.7324	304.7324	9.4000e-003	8.9600e-003	307.6365
Total	0.1248	0.0863	1.0303	2.9800e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		304.7324	304.7324	9.4000e-003	8.9600e-003	307.6365

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

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	lb/day										lb/day					
Archit. Coating	16.9360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	17.1277	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1248	0.0863	1.0303	2.9800e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		304.7324	304.7324	9.4000e-003	8.9600e-003	307.6365
Total	0.1248	0.0863	1.0303	2.9800e-003	0.3697	1.8300e-003	0.3715	0.0981	1.6900e-003	0.0997		304.7324	304.7324	9.4000e-003	8.9600e-003	307.6365

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	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	lb/day										lb/day					
Mitigated	2.2439	2.5820	21.6006	0.0403	4.5006	0.0305	4.5311	1.1987	0.0284	1.2271		4,172.2568	4,172.2568	0.3077	0.2167	4,244.5260
Unmitigated	2.3444	2.7761	23.1470	0.0444	4.9672	0.0332	5.0004	1.3229	0.0310	1.3539		4,589.2402	4,589.2402	0.3248	0.2326	4,666.6656

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.80	1,021.80	1021.80	2,359,957	2,138,279
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,021.80	1,021.80	1,021.80	2,359,957	2,138,279

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Enclosed Parking with Elevator	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	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	lb/day										lb/day					
NaturalGas Mitigated	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
NaturalGas Unmitigated	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6060.46	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

Mitigated

	NaturalGas Use	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
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.06046	0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0654	0.5585	0.2377	3.5600e-003		0.0452	0.0452		0.0452	0.0452		712.9955	712.9955	0.0137	0.0131	717.2325

6.0 Area Detail

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

No Hearths Installed

	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	lb/day										lb/day					
Mitigated	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259
Unmitigated	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	1.0208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	107.7501	2.3821	142.3592	0.2743		20.2100	20.2100		20.2100	20.2100	2,193.1617	970.9412	3,164.1029	3.0012	0.1550	3,285.3291
Landscaping	0.6525	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199		38.9879	38.9879	0.0375		39.9259
Total	115.0619	2.6313	163.9968	0.2754		20.3298	20.3298		20.3298	20.3298	2,193.1617	1,009.9291	3,203.0908	3.0387	0.1550	3,325.2550

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Architectural Coating	1.0208					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6385					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6525	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199		38.9879	38.9879	0.0375		39.9259
Total	7.3118	0.2492	21.6375	1.1400e-003		0.1199	0.1199		0.1199	0.1199	0.0000	38.9879	38.9879	0.0375	0.0000	39.9259

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

1477 Huntington Avenue Project - Bay Area AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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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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11.0 Vegetation
