

Manzanita Park - Bay Area AQMD Air District, Annual

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

**Manzanita Park  
Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse High Rise	67.00	Dwelling Unit	5.63	67,000.00	192
Parking Lot	55.00	Space	0.20	22,000.00	0
Other Asphalt Surfaces	13.70	1000sqft	0.31	13,700.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Lot acreage adjusted based on site plan.

Other Asphalt Surfaces used to represent widening of Monterey Road.

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

Grading -

Vehicle Trips - Trip generation rate updated per ITE Manual 10th Ed.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity, and it sited 0.4-mi from bus stop.

Area Mitigation - No hearths, as noted on applicant-provided questionnaire.

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

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	500.00
tblConstructionPhase	NumDays	230.00	500.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	PhaseEndDate	5/21/2024	7/8/2025
tblConstructionPhase	PhaseEndDate	3/26/2024	6/24/2025
tblConstructionPhase	PhaseEndDate	5/9/2023	7/4/2023
tblConstructionPhase	PhaseEndDate	4/23/2024	7/25/2023
tblConstructionPhase	PhaseEndDate	4/11/2023	5/2/2023
tblConstructionPhase	PhaseStartDate	4/24/2024	8/9/2023
tblConstructionPhase	PhaseStartDate	5/10/2023	7/26/2023
tblConstructionPhase	PhaseStartDate	4/12/2023	5/3/2023
tblConstructionPhase	PhaseStartDate	3/27/2024	7/5/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	3/1/2023
tblLandUse	LotAcreage	1.05	5.63
tblLandUse	LotAcreage	0.49	0.20
tblVehicleTrips	ST_TR	4.91	9.44
tblVehicleTrips	SU_TR	4.09	9.44
tblVehicleTrips	WD_TR	5.44	9.44

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3180	2.0207	1.9858	3.8600e-003	0.6466	0.0933	0.7400	0.3164	0.0870	0.4034	0.0000	339.0234	339.0234	0.0813	3.0100e-003	341.9527
2024	0.4931	2.0121	2.5844	4.9000e-003	0.0898	0.0892	0.1790	0.0242	0.0843	0.1085	0.0000	430.3992	430.3992	0.0760	6.4700e-003	434.2275
2025	0.2380	0.8995	1.2320	2.3500e-003	0.0434	0.0368	0.0802	0.0117	0.0349	0.0465	0.0000	206.0807	206.0807	0.0360	3.0100e-003	207.8780
<b>Maximum</b>	<b>0.4931</b>	<b>2.0207</b>	<b>2.5844</b>	<b>4.9000e-003</b>	<b>0.6466</b>	<b>0.0933</b>	<b>0.7400</b>	<b>0.3164</b>	<b>0.0870</b>	<b>0.4034</b>	<b>0.0000</b>	<b>430.3992</b>	<b>430.3992</b>	<b>0.0813</b>	<b>6.4700e-003</b>	<b>434.2275</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3180	2.0207	1.9858	3.8600e-003	0.6466	0.0933	0.7400	0.3164	0.0870	0.4034	0.0000	339.0230	339.0230	0.0813	3.0100e-003	341.9523
2024	0.4931	2.0121	2.5844	4.9000e-003	0.0898	0.0892	0.1790	0.0242	0.0843	0.1085	0.0000	430.3988	430.3988	0.0760	6.4700e-003	434.2271
2025	0.2380	0.8995	1.2319	2.3500e-003	0.0434	0.0368	0.0802	0.0117	0.0349	0.0465	0.0000	206.0805	206.0805	0.0360	3.0100e-003	207.8778
<b>Maximum</b>	<b>0.4931</b>	<b>2.0207</b>	<b>2.5844</b>	<b>4.9000e-003</b>	<b>0.6466</b>	<b>0.0933</b>	<b>0.7400</b>	<b>0.3164</b>	<b>0.0870</b>	<b>0.4034</b>	<b>0.0000</b>	<b>430.3988</b>	<b>430.3988</b>	<b>0.0813</b>	<b>6.4700e-003</b>	<b>434.2271</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	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	3-1-2023	5-31-2023	0.8851	0.8851
2	6-1-2023	8-31-2023	0.5751	0.5751
3	9-1-2023	11-30-2023	0.6600	0.6600
4	12-1-2023	2-29-2024	0.6357	0.6357
5	3-1-2024	5-31-2024	0.6283	0.6283
6	6-1-2024	8-31-2024	0.6276	0.6276
7	9-1-2024	11-30-2024	0.6221	0.6221
8	12-1-2024	2-28-2025	0.5909	0.5909
9	3-1-2025	5-31-2025	0.5893	0.5893
10	6-1-2025	8-31-2025	0.1700	0.1700
		Highest	0.8851	0.8851

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**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	tons/yr										MT/yr					
Area	0.4815	9.2900e-003	0.7105	4.5000e-004		0.0332	0.0332		0.0332	0.0332	3.0545	2.0685	5.1230	5.6900e-003	2.0000e-004	5.3250
Energy	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	56.2581	56.2581	4.8300e-003	1.0600e-003	56.6962
Mobile	0.2524	0.2802	2.3450	4.8600e-003	0.5384	3.6100e-003	0.5421	0.1439	3.3600e-003	0.1472	0.0000	460.1871	460.1871	0.0299	0.0220	467.4943
Waste						0.0000	0.0000		0.0000	0.0000	6.2562	0.0000	6.2562	0.3697	0.0000	15.4994
Water						0.0000	0.0000		0.0000	0.0000	1.3849	3.0767	4.4616	0.1427	3.4200e-003	9.0490
<b>Total</b>	<b>0.7369</b>	<b>0.3153</b>	<b>3.0665</b>	<b>5.4800e-003</b>	<b>0.5384</b>	<b>0.0389</b>	<b>0.5773</b>	<b>0.1439</b>	<b>0.0386</b>	<b>0.1825</b>	<b>10.6956</b>	<b>521.5904</b>	<b>532.2860</b>	<b>0.5529</b>	<b>0.0267</b>	<b>554.0639</b>

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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	0.3269	5.7300e-003	0.4976	3.0000e-005		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	0.8139	0.8139	7.8000e-004	0.0000	0.8334
Energy	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	56.2581	56.2581	4.8300e-003	1.0600e-003	56.6962
Mobile	0.2446	0.2657	2.2262	4.5400e-003	0.5013	3.3900e-003	0.5047	0.1339	3.1600e-003	0.1371	0.0000	429.4531	429.4531	0.0287	0.0209	436.3977
Waste						0.0000	0.0000		0.0000	0.0000	6.2562	0.0000	6.2562	0.3697	0.0000	15.4994
Water						0.0000	0.0000		0.0000	0.0000	1.3849	2.8984	4.2834	0.1427	3.4200e-003	8.8690
<b>Total</b>	<b>0.5745</b>	<b>0.2973</b>	<b>2.7349</b>	<b>4.7400e-003</b>	<b>0.5013</b>	<b>8.2400e-003</b>	<b>0.5095</b>	<b>0.1339</b>	<b>8.0100e-003</b>	<b>0.1419</b>	<b>7.6411</b>	<b>489.4235</b>	<b>497.0646</b>	<b>0.5468</b>	<b>0.0254</b>	<b>518.2957</b>

	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
<b>Percent Reduction</b>	<b>22.05</b>	<b>5.71</b>	<b>10.81</b>	<b>13.50</b>	<b>6.90</b>	<b>78.81</b>	<b>11.75</b>	<b>6.90</b>	<b>79.27</b>	<b>22.23</b>	<b>28.56</b>	<b>6.17</b>	<b>6.62</b>	<b>1.11</b>	<b>4.91</b>	<b>6.46</b>

**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	3/1/2023	5/2/2023	5	45	
2	Paving	Paving	7/5/2023	7/25/2023	5	15	
3	Grading	Grading	5/3/2023	7/4/2023	5	45	

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4	Building Construction	Building Construction	7/26/2023	6/24/2025	5	500
5	Architectural Coating	Architectural Coating	8/9/2023	7/8/2025	5	500

**Acres of Grading (Site Preparation Phase): 67.5**

**Acres of Grading (Grading Phase): 45**

**Acres of Paving: 0.51**

**Residential Indoor: 135,675; Residential Outdoor: 45,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,142 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

**Trips and VMT**

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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	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4423	0.0000	0.4423	0.2273	0.0000	0.2273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.6193	0.4105	8.6000e-004		0.0285	0.0285		0.0262	0.0262	0.0000	75.2641	75.2641	0.0243	0.0000	75.8726
<b>Total</b>	<b>0.0598</b>	<b>0.6193</b>	<b>0.4105</b>	<b>8.6000e-004</b>	<b>0.4423</b>	<b>0.0285</b>	<b>0.4708</b>	<b>0.2273</b>	<b>0.0262</b>	<b>0.2535</b>	<b>0.0000</b>	<b>75.2641</b>	<b>75.2641</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.8726</b>



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**3.2 Site Preparation - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0400e-003	7.1000e-004	8.9800e-003	3.0000e-005	3.2000e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.5082	2.5082	7.0000e-005	7.0000e-005	2.5305
<b>Total</b>	<b>1.0400e-003</b>	<b>7.1000e-004</b>	<b>8.9800e-003</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>2.0000e-005</b>	<b>3.2200e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.5082</b>	<b>2.5082</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5305</b>

**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					0.4423	0.0000	0.4423	0.2273	0.0000	0.2273	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0598	0.6193	0.4105	8.6000e-004		0.0285	0.0285		0.0262	0.0262	0.0000	75.2640	75.2640	0.0243	0.0000	75.8725
<b>Total</b>	<b>0.0598</b>	<b>0.6193</b>	<b>0.4105</b>	<b>8.6000e-004</b>	<b>0.4423</b>	<b>0.0285</b>	<b>0.4708</b>	<b>0.2273</b>	<b>0.0262</b>	<b>0.2535</b>	<b>0.0000</b>	<b>75.2640</b>	<b>75.2640</b>	<b>0.0243</b>	<b>0.0000</b>	<b>75.8725</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.0400e-003	7.1000e-004	8.9800e-003	3.0000e-005	3.2000e-003	2.0000e-005	3.2200e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.5082	2.5082	7.0000e-005	7.0000e-005	2.5305
<b>Total</b>	<b>1.0400e-003</b>	<b>7.1000e-004</b>	<b>8.9800e-003</b>	<b>3.0000e-005</b>	<b>3.2000e-003</b>	<b>2.0000e-005</b>	<b>3.2200e-003</b>	<b>8.5000e-004</b>	<b>2.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.5082</b>	<b>2.5082</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>2.5305</b>

**3.3 Paving - 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	7.7500e-003	0.0764	0.1094	1.7000e-004		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	15.0202	15.0202	4.8600e-003	0.0000	15.1416
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4200e-003</b>	<b>0.0764</b>	<b>0.1094</b>	<b>1.7000e-004</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>		<b>3.5200e-003</b>	<b>3.5200e-003</b>	<b>0.0000</b>	<b>15.0202</b>	<b>15.0202</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>15.1416</b>

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**3.3 Paving - 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	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029
<b>Total</b>	<b>2.9000e-004</b>	<b>2.0000e-004</b>	<b>2.4900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6967</b>	<b>0.6967</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7029</b>

**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	7.7500e-003	0.0764	0.1094	1.7000e-004		3.8300e-003	3.8300e-003		3.5200e-003	3.5200e-003	0.0000	15.0201	15.0201	4.8600e-003	0.0000	15.1416
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.4200e-003</b>	<b>0.0764</b>	<b>0.1094</b>	<b>1.7000e-004</b>		<b>3.8300e-003</b>	<b>3.8300e-003</b>		<b>3.5200e-003</b>	<b>3.5200e-003</b>	<b>0.0000</b>	<b>15.0201</b>	<b>15.0201</b>	<b>4.8600e-003</b>	<b>0.0000</b>	<b>15.1416</b>

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

**3.3 Paving - 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	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029
<b>Total</b>	<b>2.9000e-004</b>	<b>2.0000e-004</b>	<b>2.4900e-003</b>	<b>1.0000e-005</b>	<b>8.9000e-004</b>	<b>0.0000</b>	<b>8.9000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.6967</b>	<b>0.6967</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7029</b>

**3.4 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1594	0.0000	0.1594	0.0771	0.0000	0.0771	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.4036	0.3319	6.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	58.6364	58.6364	0.0190	0.0000	59.1105
<b>Total</b>	<b>0.0385</b>	<b>0.4036</b>	<b>0.3319</b>	<b>6.7000e-004</b>	<b>0.1594</b>	<b>0.0174</b>	<b>0.1768</b>	<b>0.0771</b>	<b>0.0160</b>	<b>0.0931</b>	<b>0.0000</b>	<b>58.6364</b>	<b>58.6364</b>	<b>0.0190</b>	<b>0.0000</b>	<b>59.1105</b>

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

**3.4 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.6000e-004	5.9000e-004	7.4800e-003	2.0000e-005	2.6700e-003	1.0000e-005	2.6800e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	2.0901	2.0901	6.0000e-005	6.0000e-005	2.1087
<b>Total</b>	<b>8.6000e-004</b>	<b>5.9000e-004</b>	<b>7.4800e-003</b>	<b>2.0000e-005</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>2.6800e-003</b>	<b>7.1000e-004</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.0901</b>	<b>2.0901</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.1087</b>

**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					0.1594	0.0000	0.1594	0.0771	0.0000	0.0771	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.4036	0.3319	6.7000e-004		0.0174	0.0174		0.0160	0.0160	0.0000	58.6363	58.6363	0.0190	0.0000	59.1104
<b>Total</b>	<b>0.0385</b>	<b>0.4036</b>	<b>0.3319</b>	<b>6.7000e-004</b>	<b>0.1594</b>	<b>0.0174</b>	<b>0.1768</b>	<b>0.0771</b>	<b>0.0160</b>	<b>0.0931</b>	<b>0.0000</b>	<b>58.6363</b>	<b>58.6363</b>	<b>0.0190</b>	<b>0.0000</b>	<b>59.1104</b>

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

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.6000e-004	5.9000e-004	7.4800e-003	2.0000e-005	2.6700e-003	1.0000e-005	2.6800e-003	7.1000e-004	1.0000e-005	7.2000e-004	0.0000	2.0901	2.0901	6.0000e-005	6.0000e-005	2.1087
<b>Total</b>	<b>8.6000e-004</b>	<b>5.9000e-004</b>	<b>7.4800e-003</b>	<b>2.0000e-005</b>	<b>2.6700e-003</b>	<b>1.0000e-005</b>	<b>2.6800e-003</b>	<b>7.1000e-004</b>	<b>1.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.0901</b>	<b>2.0901</b>	<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>2.1087</b>

**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	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9697	130.9697	0.0312	0.0000	131.7486
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9697</b>	<b>130.9697</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7486</b>

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**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 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	7.8000e-004	0.0327	0.0102	1.5000e-004	4.8200e-003	1.9000e-004	5.0100e-003	1.3900e-003	1.8000e-004	1.5800e-003	0.0000	14.4987	14.4987	3.0000e-004	2.1400e-003	15.1452
Worker	9.1100e-003	6.2400e-003	0.0789	2.4000e-004	0.0281	1.5000e-004	0.0283	7.4800e-003	1.3000e-004	7.6200e-003	0.0000	22.0440	22.0440	6.3000e-004	6.0000e-004	22.2400
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0389</b>	<b>0.0892</b>	<b>3.9000e-004</b>	<b>0.0330</b>	<b>3.4000e-004</b>	<b>0.0333</b>	<b>8.8700e-003</b>	<b>3.1000e-004</b>	<b>9.2000e-003</b>	<b>0.0000</b>	<b>36.5427</b>	<b>36.5427</b>	<b>9.3000e-004</b>	<b>2.7400e-003</b>	<b>37.3853</b>

**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	0.0889	0.8128	0.9178	1.5200e-003		0.0395	0.0395		0.0372	0.0372	0.0000	130.9695	130.9695	0.0312	0.0000	131.7484
<b>Total</b>	<b>0.0889</b>	<b>0.8128</b>	<b>0.9178</b>	<b>1.5200e-003</b>		<b>0.0395</b>	<b>0.0395</b>		<b>0.0372</b>	<b>0.0372</b>	<b>0.0000</b>	<b>130.9695</b>	<b>130.9695</b>	<b>0.0312</b>	<b>0.0000</b>	<b>131.7484</b>

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**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 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	7.8000e-004	0.0327	0.0102	1.5000e-004	4.8200e-003	1.9000e-004	5.0100e-003	1.3900e-003	1.8000e-004	1.5800e-003	0.0000	14.4987	14.4987	3.0000e-004	2.1400e-003	15.1452
Worker	9.1100e-003	6.2400e-003	0.0789	2.4000e-004	0.0281	1.5000e-004	0.0283	7.4800e-003	1.3000e-004	7.6200e-003	0.0000	22.0440	22.0440	6.3000e-004	6.0000e-004	22.2400
<b>Total</b>	<b>9.8900e-003</b>	<b>0.0389</b>	<b>0.0892</b>	<b>3.9000e-004</b>	<b>0.0330</b>	<b>3.4000e-004</b>	<b>0.0333</b>	<b>8.8700e-003</b>	<b>3.1000e-004</b>	<b>9.2000e-003</b>	<b>0.0000</b>	<b>36.5427</b>	<b>36.5427</b>	<b>9.3000e-004</b>	<b>2.7400e-003</b>	<b>37.3853</b>

**3.5 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7223</b>	<b>303.7223</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5179</b>



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

**3.5 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.7600e-003	0.0758	0.0232	3.4000e-004	0.0112	4.5000e-004	0.0116	3.2300e-003	4.3000e-004	3.6600e-003	0.0000	33.0926	33.0926	6.8000e-004	4.8900e-003	34.5683
Worker	0.0198	0.0129	0.1710	5.3000e-004	0.0652	3.2000e-004	0.0655	0.0174	2.9000e-004	0.0176	0.0000	49.8501	49.8501	1.3300e-003	1.3100e-003	50.2729
<b>Total</b>	<b>0.0215</b>	<b>0.0887</b>	<b>0.1942</b>	<b>8.7000e-004</b>	<b>0.0764</b>	<b>7.7000e-004</b>	<b>0.0772</b>	<b>0.0206</b>	<b>7.2000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>82.9427</b>	<b>82.9427</b>	<b>2.0100e-003</b>	<b>6.2000e-003</b>	<b>84.8411</b>

**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	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
<b>Total</b>	<b>0.1928</b>	<b>1.7611</b>	<b>2.1179</b>	<b>3.5300e-003</b>		<b>0.0803</b>	<b>0.0803</b>		<b>0.0756</b>	<b>0.0756</b>	<b>0.0000</b>	<b>303.7220</b>	<b>303.7220</b>	<b>0.0718</b>	<b>0.0000</b>	<b>305.5175</b>

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

**3.5 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.7600e-003	0.0758	0.0232	3.4000e-004	0.0112	4.5000e-004	0.0116	3.2300e-003	4.3000e-004	3.6600e-003	0.0000	33.0926	33.0926	6.8000e-004	4.8900e-003	34.5683
Worker	0.0198	0.0129	0.1710	5.3000e-004	0.0652	3.2000e-004	0.0655	0.0174	2.9000e-004	0.0176	0.0000	49.8501	49.8501	1.3300e-003	1.3100e-003	50.2729
<b>Total</b>	<b>0.0215</b>	<b>0.0887</b>	<b>0.1942</b>	<b>8.7000e-004</b>	<b>0.0764</b>	<b>7.7000e-004</b>	<b>0.0772</b>	<b>0.0206</b>	<b>7.2000e-004</b>	<b>0.0213</b>	<b>0.0000</b>	<b>82.9427</b>	<b>82.9427</b>	<b>2.0100e-003</b>	<b>6.2000e-003</b>	<b>84.8411</b>

**3.5 Building Construction - 2025**

**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	0.0855	0.7794	1.0053	1.6900e-003		0.0330	0.0330		0.0310	0.0310	0.0000	144.9497	144.9497	0.0341	0.0000	145.8015
<b>Total</b>	<b>0.0855</b>	<b>0.7794</b>	<b>1.0053</b>	<b>1.6900e-003</b>		<b>0.0330</b>	<b>0.0330</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>144.9497</b>	<b>144.9497</b>	<b>0.0341</b>	<b>0.0000</b>	<b>145.8015</b>

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

**3.5 Building Construction - 2025**

**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	8.2000e-004	0.0360	0.0109	1.6000e-004	5.3300e-003	2.1000e-004	5.5400e-003	1.5400e-003	2.0000e-004	1.7500e-003	0.0000	15.5077	15.5077	3.2000e-004	2.2900e-003	16.1990
Worker	8.8700e-003	5.5500e-003	0.0766	2.5000e-004	0.0311	1.5000e-004	0.0313	8.2800e-003	1.3000e-004	8.4100e-003	0.0000	23.2152	23.2152	5.8000e-004	5.8000e-004	23.4038
<b>Total</b>	<b>9.6900e-003</b>	<b>0.0416</b>	<b>0.0875</b>	<b>4.1000e-004</b>	<b>0.0364</b>	<b>3.6000e-004</b>	<b>0.0368</b>	<b>9.8200e-003</b>	<b>3.3000e-004</b>	<b>0.0102</b>	<b>0.0000</b>	<b>38.7229</b>	<b>38.7229</b>	<b>9.0000e-004</b>	<b>2.8700e-003</b>	<b>39.6028</b>

**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	0.0855	0.7794	1.0053	1.6900e-003		0.0330	0.0330		0.0310	0.0310	0.0000	144.9495	144.9495	0.0341	0.0000	145.8013
<b>Total</b>	<b>0.0855</b>	<b>0.7794</b>	<b>1.0053</b>	<b>1.6900e-003</b>		<b>0.0330</b>	<b>0.0330</b>		<b>0.0310</b>	<b>0.0310</b>	<b>0.0000</b>	<b>144.9495</b>	<b>144.9495</b>	<b>0.0341</b>	<b>0.0000</b>	<b>145.8013</b>

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

**3.5 Building Construction - 2025**

**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	8.2000e-004	0.0360	0.0109	1.6000e-004	5.3300e-003	2.1000e-004	5.5400e-003	1.5400e-003	2.0000e-004	1.7500e-003	0.0000	15.5077	15.5077	3.2000e-004	2.2900e-003	16.1990
Worker	8.8700e-003	5.5500e-003	0.0766	2.5000e-004	0.0311	1.5000e-004	0.0313	8.2800e-003	1.3000e-004	8.4100e-003	0.0000	23.2152	23.2152	5.8000e-004	5.8000e-004	23.4038
<b>Total</b>	<b>9.6900e-003</b>	<b>0.0416</b>	<b>0.0875</b>	<b>4.1000e-004</b>	<b>0.0364</b>	<b>3.6000e-004</b>	<b>0.0368</b>	<b>9.8200e-003</b>	<b>3.3000e-004</b>	<b>0.0102</b>	<b>0.0000</b>	<b>38.7229</b>	<b>38.7229</b>	<b>9.0000e-004</b>	<b>2.8700e-003</b>	<b>39.6028</b>

**3.6 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	0.0987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1493	13.1493	7.9000e-004	0.0000	13.1689
<b>Total</b>	<b>0.1086</b>	<b>0.0671</b>	<b>0.0933</b>	<b>1.5000e-004</b>		<b>3.6500e-003</b>	<b>3.6500e-003</b>		<b>3.6500e-003</b>	<b>3.6500e-003</b>	<b>0.0000</b>	<b>13.1493</b>	<b>13.1493</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>13.1689</b>

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

**3.6 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	1.7100e-003	1.1700e-003	0.0149	4.0000e-005	5.2900e-003	3.0000e-005	5.3200e-003	1.4100e-003	3.0000e-005	1.4300e-003	0.0000	4.1462	4.1462	1.2000e-004	1.1000e-004	4.1831
<b>Total</b>	<b>1.7100e-003</b>	<b>1.1700e-003</b>	<b>0.0149</b>	<b>4.0000e-005</b>	<b>5.2900e-003</b>	<b>3.0000e-005</b>	<b>5.3200e-003</b>	<b>1.4100e-003</b>	<b>3.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.1462</b>	<b>4.1462</b>	<b>1.2000e-004</b>	<b>1.1000e-004</b>	<b>4.1831</b>

**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	0.0987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8700e-003	0.0671	0.0933	1.5000e-004		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003	0.0000	13.1492	13.1492	7.9000e-004	0.0000	13.1689
<b>Total</b>	<b>0.1086</b>	<b>0.0671</b>	<b>0.0933</b>	<b>1.5000e-004</b>		<b>3.6500e-003</b>	<b>3.6500e-003</b>		<b>3.6500e-003</b>	<b>3.6500e-003</b>	<b>0.0000</b>	<b>13.1492</b>	<b>13.1492</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>13.1689</b>

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

**3.6 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	1.7100e-003	1.1700e-003	0.0149	4.0000e-005	5.2900e-003	3.0000e-005	5.3200e-003	1.4100e-003	3.0000e-005	1.4300e-003	0.0000	4.1462	4.1462	1.2000e-004	1.1000e-004	4.1831
<b>Total</b>	<b>1.7100e-003</b>	<b>1.1700e-003</b>	<b>0.0149</b>	<b>4.0000e-005</b>	<b>5.2900e-003</b>	<b>3.0000e-005</b>	<b>5.3200e-003</b>	<b>1.4100e-003</b>	<b>3.0000e-005</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.1462</b>	<b>4.1462</b>	<b>1.2000e-004</b>	<b>1.1000e-004</b>	<b>4.1831</b>

**3.6 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2510					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>0.2747</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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

**3.6 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0800e-003	2.6600e-003	0.0353	1.1000e-004	0.0135	7.0000e-005	0.0135	3.5800e-003	6.0000e-005	3.6400e-003	0.0000	10.2865	10.2865	2.8000e-004	2.7000e-004	10.3738
<b>Total</b>	<b>4.0800e-003</b>	<b>2.6600e-003</b>	<b>0.0353</b>	<b>1.1000e-004</b>	<b>0.0135</b>	<b>7.0000e-005</b>	<b>0.0135</b>	<b>3.5800e-003</b>	<b>6.0000e-005</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>10.2865</b>	<b>10.2865</b>	<b>2.8000e-004</b>	<b>2.7000e-004</b>	<b>10.3738</b>

**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	0.2510					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0237	0.1597	0.2371	3.9000e-004		7.9800e-003	7.9800e-003		7.9800e-003	7.9800e-003	0.0000	33.4476	33.4476	1.8800e-003	0.0000	33.4947
<b>Total</b>	<b>0.2747</b>	<b>0.1597</b>	<b>0.2371</b>	<b>3.9000e-004</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>		<b>7.9800e-003</b>	<b>7.9800e-003</b>	<b>0.0000</b>	<b>33.4476</b>	<b>33.4476</b>	<b>1.8800e-003</b>	<b>0.0000</b>	<b>33.4947</b>

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

**3.6 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	4.0800e-003	2.6600e-003	0.0353	1.1000e-004	0.0135	7.0000e-005	0.0135	3.5800e-003	6.0000e-005	3.6400e-003	0.0000	10.2865	10.2865	2.8000e-004	2.7000e-004	10.3738
<b>Total</b>	<b>4.0800e-003</b>	<b>2.6600e-003</b>	<b>0.0353</b>	<b>1.1000e-004</b>	<b>0.0135</b>	<b>7.0000e-005</b>	<b>0.0135</b>	<b>3.5800e-003</b>	<b>6.0000e-005</b>	<b>3.6400e-003</b>	<b>0.0000</b>	<b>10.2865</b>	<b>10.2865</b>	<b>2.8000e-004</b>	<b>2.7000e-004</b>	<b>10.3738</b>

**3.6 Architectural Coating - 2025**

**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	0.1294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.0773	0.1221	2.0000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	17.2345	17.2345	9.4000e-004	0.0000	17.2580
<b>Total</b>	<b>0.1409</b>	<b>0.0773</b>	<b>0.1221</b>	<b>2.0000e-004</b>		<b>3.4800e-003</b>	<b>3.4800e-003</b>		<b>3.4800e-003</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>17.2345</b>	<b>17.2345</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>17.2580</b>



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

**3.6 Architectural Coating - 2025**

**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	1.9800e-003	1.2400e-003	0.0171	5.0000e-005	6.9300e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.1737	5.1737	1.3000e-004	1.3000e-004	5.2157
<b>Total</b>	<b>1.9800e-003</b>	<b>1.2400e-003</b>	<b>0.0171</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>3.0000e-005</b>	<b>6.9700e-003</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.1737</b>	<b>5.1737</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>5.2157</b>

**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	0.1294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.0773	0.1221	2.0000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003	0.0000	17.2344	17.2344	9.4000e-004	0.0000	17.2580
<b>Total</b>	<b>0.1409</b>	<b>0.0773</b>	<b>0.1221</b>	<b>2.0000e-004</b>		<b>3.4800e-003</b>	<b>3.4800e-003</b>		<b>3.4800e-003</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>17.2344</b>	<b>17.2344</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>17.2580</b>

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

**3.6 Architectural Coating - 2025**

**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	1.9800e-003	1.2400e-003	0.0171	5.0000e-005	6.9300e-003	3.0000e-005	6.9700e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.1737	5.1737	1.3000e-004	1.3000e-004	5.2157
<b>Total</b>	<b>1.9800e-003</b>	<b>1.2400e-003</b>	<b>0.0171</b>	<b>5.0000e-005</b>	<b>6.9300e-003</b>	<b>3.0000e-005</b>	<b>6.9700e-003</b>	<b>1.8400e-003</b>	<b>3.0000e-005</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.1737</b>	<b>5.1737</b>	<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>5.2157</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

Improve Pedestrian Network

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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
Category	tons/yr										MT/yr					
Mitigated	0.2446	0.2657	2.2262	4.5400e-003	0.5013	3.3900e-003	0.5047	0.1339	3.1600e-003	0.1371	0.0000	429.4531	429.4531	0.0287	0.0209	436.3977
Unmitigated	0.2524	0.2802	2.3450	4.8600e-003	0.5384	3.6100e-003	0.5421	0.1439	3.3600e-003	0.1472	0.0000	460.1871	460.1871	0.0299	0.0220	467.4943

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	632.48	632.48	632.48	1,460,780	1,359,987
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>632.48</b>	<b>632.48</b>	<b>632.48</b>	<b>1,460,780</b>	<b>1,359,987</b>

**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
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse High Rise	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
Other Asphalt Surfaces	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

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

Parking Lot	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
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**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	26.2905	26.2905	4.2500e-003	5.2000e-004	26.5504
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	26.2905	26.2905	4.2500e-003	5.2000e-004	26.5504
NaturalGas Mitigated	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9677	29.9677	5.7000e-004	5.5000e-004	30.1457
NaturalGas Unmitigated	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9677	29.9677	5.7000e-004	5.5000e-004	30.1457

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

**5.2 Energy by Land Use - Natural Gas**

Unmitigated

	Natural Gas 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					
Condo/Townhouse High Rise	561573	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9677	29.9677	5.7000e-004	5.5000e-004	30.1457
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>3.0300e-003</b>	<b>0.0259</b>	<b>0.0110</b>	<b>1.7000e-004</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>29.9677</b>	<b>29.9677</b>	<b>5.7000e-004</b>	<b>5.5000e-004</b>	<b>30.1457</b>

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

**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas 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					
Condo/Townhouse High Rise	561573	3.0300e-003	0.0259	0.0110	1.7000e-004		2.0900e-003	2.0900e-003		2.0900e-003	2.0900e-003	0.0000	29.9677	29.9677	5.7000e-004	5.5000e-004	30.1457
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>3.0300e-003</b>	<b>0.0259</b>	<b>0.0110</b>	<b>1.7000e-004</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>		<b>2.0900e-003</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>29.9677</b>	<b>29.9677</b>	<b>5.7000e-004</b>	<b>5.5000e-004</b>	<b>30.1457</b>

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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			
Condo/Townhouse High Rise	276448	25.5780	4.1400e-003	5.0000e-004	25.8309
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7700	0.7124	1.2000e-004	1.0000e-005	0.7195
<b>Total</b>		<b>26.2904</b>	<b>4.2600e-003</b>	<b>5.1000e-004</b>	<b>26.5504</b>

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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**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse High Rise	276448	25.5780	4.1400e-003	5.0000e-004	25.8309
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7700	0.7124	1.2000e-004	1.0000e-005	0.7195
<b>Total</b>		<b>26.2904</b>	<b>4.2600e-003</b>	<b>5.1000e-004</b>	<b>26.5504</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed



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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
Category	tons/yr										MT/yr					
Mitigated	0.3269	5.7300e-003	0.4976	3.0000e-005		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	0.8139	0.8139	7.8000e-004	0.0000	0.8334
Unmitigated	0.4815	9.2900e-003	0.7105	4.5000e-004		0.0332	0.0332		0.0332	0.0332	3.0545	2.0685	5.1230	5.6900e-003	2.0000e-004	5.3250

**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	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2640					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1546	3.5600e-003	0.2129	4.2000e-004		0.0304	0.0304		0.0304	0.0304	3.0545	1.2546	4.3092	4.9100e-003	2.0000e-004	4.4916
Landscaping	0.0150	5.7300e-003	0.4976	3.0000e-005		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	0.8139	0.8139	7.8000e-004	0.0000	0.8334
<b>Total</b>	<b>0.4815</b>	<b>9.2900e-003</b>	<b>0.7105</b>	<b>4.5000e-004</b>		<b>0.0332</b>	<b>0.0332</b>		<b>0.0332</b>	<b>0.0332</b>	<b>3.0545</b>	<b>2.0685</b>	<b>5.1230</b>	<b>5.6900e-003</b>	<b>2.0000e-004</b>	<b>5.3250</b>

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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	0.0479					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2640					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	0.0150	5.7300e-003	0.4976	3.0000e-005		2.7600e-003	2.7600e-003		2.7600e-003	2.7600e-003	0.0000	0.8139	0.8139	7.8000e-004	0.0000	0.8334
<b>Total</b>	<b>0.3269</b>	<b>5.7300e-003</b>	<b>0.4976</b>	<b>3.0000e-005</b>		<b>2.7600e-003</b>	<b>2.7600e-003</b>		<b>2.7600e-003</b>	<b>2.7600e-003</b>	<b>0.0000</b>	<b>0.8139</b>	<b>0.8139</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>0.8334</b>

**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	4.2834	0.1427	3.4200e-003	8.8690
Unmitigated	4.4616	0.1427	3.4200e-003	9.0490

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse High Rise	4.36532 / 2.75205	4.4616	0.1427	3.4200e-003	9.0490
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.4616</b>	<b>0.1427</b>	<b>3.4200e-003</b>	<b>9.0490</b>

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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			
Condo/Townhouse High Rise	4.36532 / 2.20164	4.2834	0.1427	3.4200e-003	8.8690
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.2834</b>	<b>0.1427</b>	<b>3.4200e-003</b>	<b>8.8690</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.2562	0.3697	0.0000	15.4994
Unmitigated	6.2562	0.3697	0.0000	15.4994

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	30.82	6.2562	0.3697	0.0000	15.4994
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2562</b>	<b>0.3697</b>	<b>0.0000</b>	<b>15.4994</b>

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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**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse High Rise	30.82	6.2562	0.3697	0.0000	15.4994
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2562</b>	<b>0.3697</b>	<b>0.0000</b>	<b>15.4994</b>

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

**11.0 Vegetation**

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Manzanita Park - Bay Area AQMD Air District, Summer

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

**Manzanita Park  
Bay Area AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse High Rise	67.00	Dwelling Unit	5.63	67,000.00	192
Parking Lot	55.00	Space	0.20	22,000.00	0
Other Asphalt Surfaces	13.70	1000sqft	0.31	13,700.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Lot acreage adjusted based on site plan.

Other Asphalt Surfaces used to represent widening of Monterey Road.

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

Grading -

Vehicle Trips - Trip generation rate updated per ITE Manual 10th Ed.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity, and it sited 0.4-mi from bus stop.

Area Mitigation - No hearths, as noted on applicant-provided questionnaire.

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



Manzanita Park - 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	20.00	500.00
tblConstructionPhase	NumDays	230.00	500.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	PhaseEndDate	5/21/2024	7/8/2025
tblConstructionPhase	PhaseEndDate	3/26/2024	6/24/2025
tblConstructionPhase	PhaseEndDate	5/9/2023	7/4/2023
tblConstructionPhase	PhaseEndDate	4/23/2024	7/25/2023
tblConstructionPhase	PhaseEndDate	4/11/2023	5/2/2023
tblConstructionPhase	PhaseStartDate	4/24/2024	8/9/2023
tblConstructionPhase	PhaseStartDate	5/10/2023	7/26/2023
tblConstructionPhase	PhaseStartDate	4/12/2023	5/3/2023
tblConstructionPhase	PhaseStartDate	3/27/2024	7/5/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	3/1/2023
tblLandUse	LotAcreage	1.05	5.63
tblLandUse	LotAcreage	0.49	0.20
tblVehicleTrips	ST_TR	4.91	9.44
tblVehicleTrips	SU_TR	4.09	9.44
tblVehicleTrips	WD_TR	5.44	9.44

**2.0 Emissions Summary**

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Manzanita Park - Bay Area AQMD Air District, Summer

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

**2.1 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					
2023	3.9005	27.5521	20.0500	0.0394	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	3,818.500 2	3,818.500 2	1.1959	0.0549	3,849.324 2
2024	3.7745	15.3259	19.8445	0.0378	0.7124	0.6806	1.3930	0.1910	0.6438	0.8347	0.0000	3,655.615 6	3,655.615 6	0.6386	0.0534	3,687.489 0
2025	3.6484	14.2659	19.6519	0.0375	0.7124	0.5853	1.2977	0.1910	0.5536	0.7446	0.0000	3,638.463 2	3,638.463 2	0.6335	0.0519	3,669.757 8
<b>Maximum</b>	<b>3.9005</b>	<b>27.5521</b>	<b>20.0500</b>	<b>0.0394</b>	<b>19.8049</b>	<b>1.2668</b>	<b>21.0716</b>	<b>10.1417</b>	<b>1.1654</b>	<b>11.3071</b>	<b>0.0000</b>	<b>3,818.500 2</b>	<b>3,818.500 2</b>	<b>1.1959</b>	<b>0.0549</b>	<b>3,849.324 2</b>

**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					
2023	3.9005	27.5521	20.0500	0.0394	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	3,818.500 2	3,818.500 2	1.1959	0.0549	3,849.324 2
2024	3.7745	15.3259	19.8445	0.0378	0.7124	0.6806	1.3930	0.1910	0.6438	0.8347	0.0000	3,655.615 6	3,655.615 6	0.6386	0.0534	3,687.489 0
2025	3.6484	14.2659	19.6519	0.0375	0.7124	0.5853	1.2977	0.1910	0.5536	0.7446	0.0000	3,638.463 2	3,638.463 2	0.6335	0.0519	3,669.757 8
<b>Maximum</b>	<b>3.9005</b>	<b>27.5521</b>	<b>20.0500</b>	<b>0.0394</b>	<b>19.8049</b>	<b>1.2668</b>	<b>21.0716</b>	<b>10.1417</b>	<b>1.1654</b>	<b>11.3071</b>	<b>0.0000</b>	<b>3,818.500 2</b>	<b>3,818.500 2</b>	<b>1.1959</b>	<b>0.0549</b>	<b>3,849.324 2</b>



Manzanita Park - 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	29.4298	0.6728	41.9342	0.0704		5.1989	5.1989		5.1989	5.1989	560.8467	258.2622	819.1089	0.7771	0.0396	850.3487
Energy	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Mobile	1.5467	1.4165	12.8055	0.0282	3.0748	0.0198	3.0946	0.8189	0.0185	0.8374		2,937.2111	2,937.2111	0.1695	0.1266	2,979.1648
<b>Total</b>	<b>30.9931</b>	<b>2.2312</b>	<b>54.8000</b>	<b>0.0995</b>	<b>3.0748</b>	<b>5.2302</b>	<b>8.3049</b>	<b>0.8189</b>	<b>5.2288</b>	<b>6.0478</b>	<b>560.8467</b>	<b>3,376.4798</b>	<b>3,937.3265</b>	<b>0.9501</b>	<b>0.1695</b>	<b>4,011.5956</b>

**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	1.8754	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307	0.0000	9.9680	9.9680	9.5700e-003	0.0000	10.2073
Energy	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Mobile	1.5045	1.3435	12.1094	0.0263	2.8626	0.0186	2.8812	0.7624	0.0174	0.7798		2,740.6186	2,740.6186	0.1621	0.1201	2,780.4573
<b>Total</b>	<b>3.3965</b>	<b>1.5489</b>	<b>17.6991</b>	<b>0.0275</b>	<b>2.8626</b>	<b>0.0608</b>	<b>2.9234</b>	<b>0.7624</b>	<b>0.0595</b>	<b>0.8219</b>	<b>0.0000</b>	<b>2,931.5931</b>	<b>2,931.5931</b>	<b>0.1752</b>	<b>0.1234</b>	<b>2,972.7467</b>

Manzanita Park - 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	89.04	30.58	67.70	72.38	6.90	98.84	64.80	6.90	98.86	86.41	100.00	13.18	25.54	81.56	27.20	25.90

**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	3/1/2023	5/2/2023	5	45	
2	Paving	Paving	7/5/2023	7/25/2023	5	15	
3	Grading	Grading	5/3/2023	7/4/2023	5	45	
4	Building Construction	Building Construction	7/26/2023	6/24/2025	5	500	
5	Architectural Coating	Architectural Coating	8/9/2023	7/8/2025	5	500	

**Acres of Grading (Site Preparation Phase): 67.5**

**Acres of Grading (Grading Phase): 45**

**Acres of Paving: 0.51**

**Residential Indoor: 135,675; Residential Outdoor: 45,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,142 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Manzanita Park - Bay Area AQMD Air District, Summer

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

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Manzanita Park - 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 - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023
<b>Total</b>	<b>0.0487</b>	<b>0.0280</b>	<b>0.4303</b>	<b>1.2800e-003</b>	<b>0.1479</b>	<b>7.3000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>131.1921</b>	<b>131.1921</b>	<b>3.3100e-003</b>	<b>3.1100e-003</b>	<b>132.2023</b>

Manzanita Park - 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 - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.0487	0.0280	0.4303	1.2800e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		131.1921	131.1921	3.3100e-003	3.1100e-003	132.2023
<b>Total</b>	<b>0.0487</b>	<b>0.0280</b>	<b>0.4303</b>	<b>1.2800e-003</b>	<b>0.1479</b>	<b>7.3000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>131.1921</b>	<b>131.1921</b>	<b>3.3100e-003</b>	<b>3.1100e-003</b>	<b>132.2023</b>



Manzanita Park - 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 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1218</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0406</b>	<b>0.0233</b>	<b>0.3586</b>	<b>1.0700e-003</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>109.3267</b>	<b>109.3267</b>	<b>2.7600e-003</b>	<b>2.5900e-003</b>	<b>110.1686</b>

Manzanita Park - 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 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1218</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

**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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0406</b>	<b>0.0233</b>	<b>0.3586</b>	<b>1.0700e-003</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>109.3267</b>	<b>109.3267</b>	<b>2.7600e-003</b>	<b>2.5900e-003</b>	<b>110.1686</b>

Manzanita Park - 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 - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>		<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0406</b>	<b>0.0233</b>	<b>0.3586</b>	<b>1.0700e-003</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>109.3267</b>	<b>109.3267</b>	<b>2.7600e-003</b>	<b>2.5900e-003</b>	<b>110.1686</b>

Manzanita Park - 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 - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>	<b>0.0000</b>	<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0406</b>	<b>0.0233</b>	<b>0.3586</b>	<b>1.0700e-003</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>109.3267</b>	<b>109.3267</b>	<b>2.7600e-003</b>	<b>2.5900e-003</b>	<b>110.1686</b>

Manzanita Park - 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0141	0.5576	0.1781	2.6300e-003	0.0880	3.3800e-003	0.0914	0.0254	3.2300e-003	0.0286		282.6993	282.6993	5.7900e-003	0.0418	295.2979
Worker	0.1704	0.0979	1.5060	4.4900e-003	0.5175	2.5700e-003	0.5201	0.1373	2.3600e-003	0.1396		459.1723	459.1723	0.0116	0.0109	462.7081
<b>Total</b>	<b>0.1846</b>	<b>0.6555</b>	<b>1.6841</b>	<b>7.1200e-003</b>	<b>0.6056</b>	<b>5.9500e-003</b>	<b>0.6115</b>	<b>0.1626</b>	<b>5.5900e-003</b>	<b>0.1682</b>		<b>741.8716</b>	<b>741.8716</b>	<b>0.0174</b>	<b>0.0527</b>	<b>758.0060</b>

Manzanita Park - 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0141	0.5576	0.1781	2.6300e-003	0.0880	3.3800e-003	0.0914	0.0254	3.2300e-003	0.0286		282.6993	282.6993	5.7900e-003	0.0418	295.2979
Worker	0.1704	0.0979	1.5060	4.4900e-003	0.5175	2.5700e-003	0.5201	0.1373	2.3600e-003	0.1396		459.1723	459.1723	0.0116	0.0109	462.7081
<b>Total</b>	<b>0.1846</b>	<b>0.6555</b>	<b>1.6841</b>	<b>7.1200e-003</b>	<b>0.6056</b>	<b>5.9500e-003</b>	<b>0.6115</b>	<b>0.1626</b>	<b>5.5900e-003</b>	<b>0.1682</b>		<b>741.8716</b>	<b>741.8716</b>	<b>0.0174</b>	<b>0.0527</b>	<b>758.0060</b>

Manzanita Park - 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 - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0138	0.5578	0.1743	2.5900e-003	0.0881	3.4000e-003	0.0915	0.0254	3.2600e-003	0.0286		278.2902	278.2902	5.7500e-003	0.0411	290.6923
Worker	0.1592	0.0874	1.4037	4.3400e-003	0.5175	2.4400e-003	0.5200	0.1373	2.2500e-003	0.1395		447.7795	447.7795	0.0105	0.0102	451.0674
<b>Total</b>	<b>0.1729</b>	<b>0.6452</b>	<b>1.5779</b>	<b>6.9300e-003</b>	<b>0.6056</b>	<b>5.8400e-003</b>	<b>0.6114</b>	<b>0.1626</b>	<b>5.5100e-003</b>	<b>0.1681</b>		<b>726.0697</b>	<b>726.0697</b>	<b>0.0162</b>	<b>0.0513</b>	<b>741.7597</b>

Manzanita Park - 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 - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0138	0.5578	0.1743	2.5900e-003	0.0881	3.4000e-003	0.0915	0.0254	3.2600e-003	0.0286		278.2902	278.2902	5.7500e-003	0.0411	290.6923
Worker	0.1592	0.0874	1.4037	4.3400e-003	0.5175	2.4400e-003	0.5200	0.1373	2.2500e-003	0.1395		447.7795	447.7795	0.0105	0.0102	451.0674
<b>Total</b>	<b>0.1729</b>	<b>0.6452</b>	<b>1.5779</b>	<b>6.9300e-003</b>	<b>0.6056</b>	<b>5.8400e-003</b>	<b>0.6114</b>	<b>0.1626</b>	<b>5.5100e-003</b>	<b>0.1681</b>		<b>726.0697</b>	<b>726.0697</b>	<b>0.0162</b>	<b>0.0513</b>	<b>741.7597</b>



Manzanita Park - 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 - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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	0.0134	0.5558	0.1712	2.5500e-003	0.0881	3.4000e-003	0.0915	0.0254	3.2600e-003	0.0286		273.3376	273.3376	5.7200e-003	0.0404	285.5158
Worker	0.1495	0.0788	1.3155	4.1900e-003	0.5175	2.3400e-003	0.5199	0.1373	2.1500e-003	0.1394		437.0237	437.0237	9.5000e-003	9.5200e-003	440.0982
<b>Total</b>	<b>0.1629</b>	<b>0.6345</b>	<b>1.4867</b>	<b>6.7400e-003</b>	<b>0.6056</b>	<b>5.7400e-003</b>	<b>0.6113</b>	<b>0.1626</b>	<b>5.4100e-003</b>	<b>0.1680</b>		<b>710.3613</b>	<b>710.3613</b>	<b>0.0152</b>	<b>0.0499</b>	<b>725.6140</b>

Manzanita Park - 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 - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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	0.0134	0.5558	0.1712	2.5500e-003	0.0881	3.4000e-003	0.0915	0.0254	3.2600e-003	0.0286		273.3376	273.3376	5.7200e-003	0.0404	285.5158
Worker	0.1495	0.0788	1.3155	4.1900e-003	0.5175	2.3400e-003	0.5199	0.1373	2.1500e-003	0.1394		437.0237	437.0237	9.5000e-003	9.5200e-003	440.0982
<b>Total</b>	<b>0.1629</b>	<b>0.6345</b>	<b>1.4867</b>	<b>6.7400e-003</b>	<b>0.6056</b>	<b>5.7400e-003</b>	<b>0.6113</b>	<b>0.1626</b>	<b>5.4100e-003</b>	<b>0.1680</b>		<b>710.3613</b>	<b>710.3613</b>	<b>0.0152</b>	<b>0.0499</b>	<b>725.6140</b>

Manzanita Park - 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 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	1.9164					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
<b>Total</b>	<b>2.1080</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
<b>Total</b>	<b>0.0352</b>	<b>0.0202</b>	<b>0.3108</b>	<b>9.3000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>94.7498</b>	<b>94.7498</b>	<b>2.3900e-003</b>	<b>2.2500e-003</b>	<b>95.4794</b>

Manzanita Park - 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 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	1.9164					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
<b>Total</b>	<b>2.1080</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
<b>Total</b>	<b>0.0352</b>	<b>0.0202</b>	<b>0.3108</b>	<b>9.3000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>94.7498</b>	<b>94.7498</b>	<b>2.3900e-003</b>	<b>2.2500e-003</b>	<b>95.4794</b>

Manzanita Park - 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 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.0971</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774
<b>Total</b>	<b>0.0329</b>	<b>0.0180</b>	<b>0.2896</b>	<b>9.0000e-004</b>	<b>0.1068</b>	<b>5.0000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.6000e-004</b>	<b>0.0288</b>		<b>92.3990</b>	<b>92.3990</b>	<b>2.1600e-003</b>	<b>2.1000e-003</b>	<b>93.0774</b>

Manzanita Park - 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 Architectural Coating - 2024**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.0971</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774
<b>Total</b>	<b>0.0329</b>	<b>0.0180</b>	<b>0.2896</b>	<b>9.0000e-004</b>	<b>0.1068</b>	<b>5.0000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.6000e-004</b>	<b>0.0288</b>		<b>92.3990</b>	<b>92.3990</b>	<b>2.1600e-003</b>	<b>2.1000e-003</b>	<b>93.0774</b>

Manzanita Park - 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 Architectural Coating - 2025**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>2.0872</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.0309	0.0163	0.2715	8.7000e-004	0.1068	4.8000e-004	0.1073	0.0283	4.4000e-004	0.0288		90.1795	90.1795	1.9600e-003	1.9600e-003	90.8139
<b>Total</b>	<b>0.0309</b>	<b>0.0163</b>	<b>0.2715</b>	<b>8.7000e-004</b>	<b>0.1068</b>	<b>4.8000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.4000e-004</b>	<b>0.0288</b>		<b>90.1795</b>	<b>90.1795</b>	<b>1.9600e-003</b>	<b>1.9600e-003</b>	<b>90.8139</b>

Manzanita Park - 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 Architectural Coating - 2025**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>2.0872</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.0309	0.0163	0.2715	8.7000e-004	0.1068	4.8000e-004	0.1073	0.0283	4.4000e-004	0.0288		90.1795	90.1795	1.9600e-003	1.9600e-003	90.8139
<b>Total</b>	<b>0.0309</b>	<b>0.0163</b>	<b>0.2715</b>	<b>8.7000e-004</b>	<b>0.1068</b>	<b>4.8000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.4000e-004</b>	<b>0.0288</b>		<b>90.1795</b>	<b>90.1795</b>	<b>1.9600e-003</b>	<b>1.9600e-003</b>	<b>90.8139</b>



Manzanita Park - 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	1.5045	1.3435	12.1094	0.0263	2.8626	0.0186	2.8812	0.7624	0.0174	0.7798		2,740.6186	2,740.6186	0.1621	0.1201	2,780.4573
Unmitigated	1.5467	1.4165	12.8055	0.0282	3.0748	0.0198	3.0946	0.8189	0.0185	0.8374		2,937.2111	2,937.2111	0.1695	0.1266	2,979.1648

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	632.48	632.48	632.48	1,460,780	1,359,987
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>632.48</b>	<b>632.48</b>	<b>632.48</b>	<b>1,460,780</b>	<b>1,359,987</b>

**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
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Manzanita Park - 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	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
Parking Lot	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
Condo/Townhouse High Rise	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
Other Asphalt Surfaces	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
Parking Lot	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
NaturalGas Unmitigated	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821

Manzanita Park - 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					
Condo/Townhouse High Rise	1538.55	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0166</b>	<b>0.1418</b>	<b>0.0603</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>		<b>181.0065</b>	<b>181.0065</b>	<b>3.4700e-003</b>	<b>3.3200e-003</b>	<b>182.0821</b>

Manzanita Park - 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**

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					
Condo/Townhouse High Rise	1.53855	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0166</b>	<b>0.1418</b>	<b>0.0603</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>		<b>181.0065</b>	<b>181.0065</b>	<b>3.4700e-003</b>	<b>3.3200e-003</b>	<b>182.0821</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Manzanita Park - 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
Category	lb/day										lb/day					
Mitigated	1.8754	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307	0.0000	9.9680	9.9680	9.5700e-003	0.0000	10.2073
Unmitigated	29.4298	0.6728	41.9342	0.0704		5.1989	5.1989		5.1989	5.1989	560.8467	258.2622	819.1089	0.7771	0.0396	850.3487

**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	0.2625					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.5544	0.6092	36.4048	0.0701		5.1682	5.1682		5.1682	5.1682	560.8467	248.2941	809.1408	0.7675	0.0396	840.1414
Landscaping	0.1665	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9680	9.9680	9.5700e-003		10.2073
<b>Total</b>	<b>29.4298</b>	<b>0.6728</b>	<b>41.9342</b>	<b>0.0704</b>		<b>5.1989</b>	<b>5.1989</b>		<b>5.1989</b>	<b>5.1989</b>	<b>560.8467</b>	<b>258.2622</b>	<b>819.1089</b>	<b>0.7771</b>	<b>0.0396</b>	<b>850.3487</b>

Manzanita Park - 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	0.2625					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4464					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	0.1665	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9680	9.9680	9.5700e-003		10.2073
<b>Total</b>	<b>1.8754</b>	<b>0.0637</b>	<b>5.5293</b>	<b>2.9000e-004</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>9.9680</b>	<b>9.9680</b>	<b>9.5700e-003</b>	<b>0.0000</b>	<b>10.2073</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Manzanita Park - 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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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Manzanita Park - Bay Area AQMD Air District, Winter

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

**Manzanita Park  
Bay Area AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse High Rise	67.00	Dwelling Unit	5.63	67,000.00	192
Parking Lot	55.00	Space	0.20	22,000.00	0
Other Asphalt Surfaces	13.70	1000sqft	0.31	13,700.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Lot acreage adjusted based on site plan.

Other Asphalt Surfaces used to represent widening of Monterey Road.

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

Grading -

Vehicle Trips - Trip generation rate updated per ITE Manual 10th Ed.

Mobile Land Use Mitigation - Project would improve pedestrian network connectivity, and it sited 0.4-mi from bus stop.

Area Mitigation - No hearths, as noted on applicant-provided questionnaire.

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



Manzanita Park - 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	20.00	500.00
tblConstructionPhase	NumDays	230.00	500.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	PhaseEndDate	5/21/2024	7/8/2025
tblConstructionPhase	PhaseEndDate	3/26/2024	6/24/2025
tblConstructionPhase	PhaseEndDate	5/9/2023	7/4/2023
tblConstructionPhase	PhaseEndDate	4/23/2024	7/25/2023
tblConstructionPhase	PhaseEndDate	4/11/2023	5/2/2023
tblConstructionPhase	PhaseStartDate	4/24/2024	8/9/2023
tblConstructionPhase	PhaseStartDate	5/10/2023	7/26/2023
tblConstructionPhase	PhaseStartDate	4/12/2023	5/3/2023
tblConstructionPhase	PhaseStartDate	3/27/2024	7/5/2023
tblConstructionPhase	PhaseStartDate	3/29/2023	3/1/2023
tblLandUse	LotAcreage	1.05	5.63
tblLandUse	LotAcreage	0.49	0.20
tblVehicleTrips	ST_TR	4.91	9.44
tblVehicleTrips	SU_TR	4.09	9.44
tblVehicleTrips	WD_TR	5.44	9.44

**2.0 Emissions Summary**

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Manzanita Park - Bay Area AQMD Air District, Winter

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

**2.1 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					
2023	3.9053	27.5587	19.9793	0.0393	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	3,809.2010	3,809.2010	1.1963	0.0570	3,840.1764
2024	3.7797	15.3829	19.7848	0.0374	0.7124	0.6806	1.3930	0.1910	0.6438	0.8348	0.0000	3,617.8149	3,617.8149	0.6403	0.0553	3,650.3118
2025	3.6539	14.3204	19.6005	0.0372	0.7124	0.5853	1.2977	0.1910	0.5536	0.7446	0.0000	3,601.6492	3,601.6492	0.6351	0.0537	3,633.5275
<b>Maximum</b>	<b>3.9053</b>	<b>27.5587</b>	<b>19.9793</b>	<b>0.0393</b>	<b>19.8049</b>	<b>1.2668</b>	<b>21.0716</b>	<b>10.1417</b>	<b>1.1654</b>	<b>11.3071</b>	<b>0.0000</b>	<b>3,809.2010</b>	<b>3,809.2010</b>	<b>1.1963</b>	<b>0.0570</b>	<b>3,840.1764</b>

**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					
2023	3.9053	27.5587	19.9793	0.0393	19.8049	1.2668	21.0716	10.1417	1.1654	11.3071	0.0000	3,809.2010	3,809.2010	1.1963	0.0570	3,840.1764
2024	3.7797	15.3829	19.7848	0.0374	0.7124	0.6806	1.3930	0.1910	0.6438	0.8348	0.0000	3,617.8149	3,617.8149	0.6403	0.0553	3,650.3118
2025	3.6539	14.3204	19.6005	0.0372	0.7124	0.5853	1.2977	0.1910	0.5536	0.7446	0.0000	3,601.6492	3,601.6492	0.6351	0.0537	3,633.5275
<b>Maximum</b>	<b>3.9053</b>	<b>27.5587</b>	<b>19.9793</b>	<b>0.0393</b>	<b>19.8049</b>	<b>1.2668</b>	<b>21.0716</b>	<b>10.1417</b>	<b>1.1654</b>	<b>11.3071</b>	<b>0.0000</b>	<b>3,809.2010</b>	<b>3,809.2010</b>	<b>1.1963</b>	<b>0.0570</b>	<b>3,840.1764</b>



Manzanita Park - 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	29.4298	0.6728	41.9342	0.0704		5.1989	5.1989		5.1989	5.1989	560.8467	258.2622	819.1089	0.7771	0.0396	850.3487
Energy	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Mobile	1.3878	1.6278	13.7586	0.0266	3.0748	0.0199	3.0946	0.8189	0.0185	0.8374		2,774.1878	2,774.1878	0.1920	0.1386	2,820.2857
<b>Total</b>	<b>30.8343</b>	<b>2.4424</b>	<b>55.7532</b>	<b>0.0979</b>	<b>3.0748</b>	<b>5.2302</b>	<b>8.3049</b>	<b>0.8189</b>	<b>5.2288</b>	<b>6.0478</b>	<b>560.8467</b>	<b>3,213.4565</b>	<b>3,774.3032</b>	<b>0.9726</b>	<b>0.1815</b>	<b>3,852.7165</b>

**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	1.8754	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307	0.0000	9.9680	9.9680	9.5700e-003	0.0000	10.2073
Energy	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Mobile	1.3434	1.5443	13.0850	0.0248	2.8626	0.0186	2.8812	0.7624	0.0174	0.7798		2,589.0328	2,589.0328	0.1845	0.1316	2,632.8642
<b>Total</b>	<b>3.2354</b>	<b>1.7497</b>	<b>18.6747</b>	<b>0.0260</b>	<b>2.8626</b>	<b>0.0608</b>	<b>2.9234</b>	<b>0.7624</b>	<b>0.0595</b>	<b>0.8219</b>	<b>0.0000</b>	<b>2,780.0073</b>	<b>2,780.0073</b>	<b>0.1975</b>	<b>0.1349</b>	<b>2,825.1536</b>

Manzanita Park - 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	89.51	28.36	66.50	73.42	6.90	98.84	64.80	6.90	98.86	86.41	100.00	13.49	26.34	79.69	25.67	26.67

**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	3/1/2023	5/2/2023	5	45	
2	Paving	Paving	7/5/2023	7/25/2023	5	15	
3	Grading	Grading	5/3/2023	7/4/2023	5	45	
4	Building Construction	Building Construction	7/26/2023	6/24/2025	5	500	
5	Architectural Coating	Architectural Coating	8/9/2023	7/8/2025	5	500	

**Acres of Grading (Site Preparation Phase): 67.5**

**Acres of Grading (Grading Phase): 45**

**Acres of Paving: 0.51**

**Residential Indoor: 135,675; Residential Outdoor: 45,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,142 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Manzanita Park - Bay Area AQMD Air District, Winter

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

Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	63.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Manzanita Park - 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 - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>		<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546
<b>Total</b>	<b>0.0499</b>	<b>0.0345</b>	<b>0.4121</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>7.3000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>121.8929</b>	<b>121.8929</b>	<b>3.7600e-003</b>	<b>3.5800e-003</b>	<b>123.0546</b>

Manzanita Park - 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 - 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					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
<b>Total</b>	<b>2.6595</b>	<b>27.5242</b>	<b>18.2443</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2660</b>	<b>20.9230</b>	<b>10.1025</b>	<b>1.1647</b>	<b>11.2672</b>	<b>0.0000</b>	<b>3,687.308 1</b>	<b>3,687.308 1</b>	<b>1.1926</b>		<b>3,717.121 9</b>

**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	0.0499	0.0345	0.4121	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.8000e-004	0.0399		121.8929	121.8929	3.7600e-003	3.5800e-003	123.0546
<b>Total</b>	<b>0.0499</b>	<b>0.0345</b>	<b>0.4121</b>	<b>1.1900e-003</b>	<b>0.1479</b>	<b>7.3000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>6.8000e-004</b>	<b>0.0399</b>		<b>121.8929</b>	<b>121.8929</b>	<b>3.7600e-003</b>	<b>3.5800e-003</b>	<b>123.0546</b>



Manzanita Park - 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 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1218</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>		<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
<b>Total</b>	<b>0.0416</b>	<b>0.0288</b>	<b>0.3434</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>101.5775</b>	<b>101.5775</b>	<b>3.1300e-003</b>	<b>2.9900e-003</b>	<b>102.5455</b>

Manzanita Park - 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 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1218</b>	<b>10.1917</b>	<b>14.5842</b>	<b>0.0228</b>		<b>0.5102</b>	<b>0.5102</b>		<b>0.4694</b>	<b>0.4694</b>	<b>0.0000</b>	<b>2,207.5841</b>	<b>2,207.5841</b>	<b>0.7140</b>		<b>2,225.4336</b>

**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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
<b>Total</b>	<b>0.0416</b>	<b>0.0288</b>	<b>0.3434</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>101.5775</b>	<b>101.5775</b>	<b>3.1300e-003</b>	<b>2.9900e-003</b>	<b>102.5455</b>

Manzanita Park - 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 - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>		<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
<b>Total</b>	<b>0.0416</b>	<b>0.0288</b>	<b>0.3434</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>101.5775</b>	<b>101.5775</b>	<b>3.1300e-003</b>	<b>2.9900e-003</b>	<b>102.5455</b>

Manzanita Park - 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 - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
<b>Total</b>	<b>1.7109</b>	<b>17.9359</b>	<b>14.7507</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7749</b>	<b>7.8575</b>	<b>3.4247</b>	<b>0.7129</b>	<b>4.1377</b>	<b>0.0000</b>	<b>2,872.6910</b>	<b>2,872.6910</b>	<b>0.9291</b>		<b>2,895.9182</b>

**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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
<b>Total</b>	<b>0.0416</b>	<b>0.0288</b>	<b>0.3434</b>	<b>9.9000e-004</b>	<b>0.1232</b>	<b>6.1000e-004</b>	<b>0.1238</b>	<b>0.0327</b>	<b>5.6000e-004</b>	<b>0.0333</b>		<b>101.5775</b>	<b>101.5775</b>	<b>3.1300e-003</b>	<b>2.9900e-003</b>	<b>102.5455</b>

Manzanita Park - 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0137	0.5900	0.1841	2.6400e-003	0.0880	3.3900e-003	0.0914	0.0254	3.2400e-003	0.0286		283.1037	283.1037	5.7500e-003	0.0419	295.7331
Worker	0.1748	0.1208	1.4424	4.1700e-003	0.5175	2.5700e-003	0.5201	0.1373	2.3600e-003	0.1396		426.6253	426.6253	0.0132	0.0125	430.6911
<b>Total</b>	<b>0.1884</b>	<b>0.7108</b>	<b>1.6266</b>	<b>6.8100e-003</b>	<b>0.6056</b>	<b>5.9600e-003</b>	<b>0.6115</b>	<b>0.1626</b>	<b>5.6000e-003</b>	<b>0.1682</b>		<b>709.7290</b>	<b>709.7290</b>	<b>0.0189</b>	<b>0.0544</b>	<b>726.4242</b>

Manzanita Park - 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

**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	0.0137	0.5900	0.1841	2.6400e-003	0.0880	3.3900e-003	0.0914	0.0254	3.2400e-003	0.0286		283.1037	283.1037	5.7500e-003	0.0419	295.7331
Worker	0.1748	0.1208	1.4424	4.1700e-003	0.5175	2.5700e-003	0.5201	0.1373	2.3600e-003	0.1396		426.6253	426.6253	0.0132	0.0125	430.6911
<b>Total</b>	<b>0.1884</b>	<b>0.7108</b>	<b>1.6266</b>	<b>6.8100e-003</b>	<b>0.6056</b>	<b>5.9600e-003</b>	<b>0.6115</b>	<b>0.1626</b>	<b>5.6000e-003</b>	<b>0.1682</b>		<b>709.7290</b>	<b>709.7290</b>	<b>0.0189</b>	<b>0.0544</b>	<b>726.4242</b>

Manzanita Park - 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 - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0133	0.5903	0.1803	2.6000e-003	0.0881	3.4200e-003	0.0915	0.0254	3.2700e-003	0.0286		278.6976	278.6976	5.7200e-003	0.0412	291.1294
Worker	0.1639	0.1078	1.3491	4.0300e-003	0.5175	2.4400e-003	0.5200	0.1373	2.2500e-003	0.1395		416.1070	416.1070	0.0119	0.0117	419.8872
<b>Total</b>	<b>0.1772</b>	<b>0.6981</b>	<b>1.5294</b>	<b>6.6300e-003</b>	<b>0.6056</b>	<b>5.8600e-003</b>	<b>0.6114</b>	<b>0.1626</b>	<b>5.5200e-003</b>	<b>0.1681</b>		<b>694.8046</b>	<b>694.8046</b>	<b>0.0177</b>	<b>0.0529</b>	<b>711.0165</b>

Manzanita Park - 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 - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</b>

**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	0.0133	0.5903	0.1803	2.6000e-003	0.0881	3.4200e-003	0.0915	0.0254	3.2700e-003	0.0286		278.6976	278.6976	5.7200e-003	0.0412	291.1294
Worker	0.1639	0.1078	1.3491	4.0300e-003	0.5175	2.4400e-003	0.5200	0.1373	2.2500e-003	0.1395		416.1070	416.1070	0.0119	0.0117	419.8872
<b>Total</b>	<b>0.1772</b>	<b>0.6981</b>	<b>1.5294</b>	<b>6.6300e-003</b>	<b>0.6056</b>	<b>5.8600e-003</b>	<b>0.6114</b>	<b>0.1626</b>	<b>5.5200e-003</b>	<b>0.1681</b>		<b>694.8046</b>	<b>694.8046</b>	<b>0.0177</b>	<b>0.0529</b>	<b>711.0165</b>



Manzanita Park - 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 - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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	0.0129	0.5881	0.1772	2.5500e-003	0.0881	3.4200e-003	0.0915	0.0254	3.2700e-003	0.0286		273.7456	273.7456	5.6900e-003	0.0405	285.9525
Worker	0.1545	0.0971	1.2679	3.9000e-003	0.5175	2.3400e-003	0.5199	0.1373	2.1500e-003	0.1394		406.1687	406.1687	0.0109	0.0110	409.7031
<b>Total</b>	<b>0.1674</b>	<b>0.6852</b>	<b>1.4451</b>	<b>6.4500e-003</b>	<b>0.6056</b>	<b>5.7600e-003</b>	<b>0.6113</b>	<b>0.1626</b>	<b>5.4200e-003</b>	<b>0.1681</b>		<b>679.9142</b>	<b>679.9142</b>	<b>0.0166</b>	<b>0.0514</b>	<b>695.6556</b>

Manzanita Park - 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 - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</b>

**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	0.0129	0.5881	0.1772	2.5500e-003	0.0881	3.4200e-003	0.0915	0.0254	3.2700e-003	0.0286		273.7456	273.7456	5.6900e-003	0.0405	285.9525
Worker	0.1545	0.0971	1.2679	3.9000e-003	0.5175	2.3400e-003	0.5199	0.1373	2.1500e-003	0.1394		406.1687	406.1687	0.0109	0.0110	409.7031
<b>Total</b>	<b>0.1674</b>	<b>0.6852</b>	<b>1.4451</b>	<b>6.4500e-003</b>	<b>0.6056</b>	<b>5.7600e-003</b>	<b>0.6113</b>	<b>0.1626</b>	<b>5.4200e-003</b>	<b>0.1681</b>		<b>679.9142</b>	<b>679.9142</b>	<b>0.0166</b>	<b>0.0514</b>	<b>695.6556</b>

Manzanita Park - 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 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	1.9164					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
<b>Total</b>	<b>2.1080</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.0361	0.0249	0.2976	8.6000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		88.0338	88.0338	2.7200e-003	2.5900e-003	88.8728
<b>Total</b>	<b>0.0361</b>	<b>0.0249</b>	<b>0.2976</b>	<b>8.6000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>88.0338</b>	<b>88.0338</b>	<b>2.7200e-003</b>	<b>2.5900e-003</b>	<b>88.8728</b>

Manzanita Park - 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 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	1.9164					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
<b>Total</b>	<b>2.1080</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

**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	0.0361	0.0249	0.2976	8.6000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		88.0338	88.0338	2.7200e-003	2.5900e-003	88.8728
<b>Total</b>	<b>0.0361</b>	<b>0.0249</b>	<b>0.2976</b>	<b>8.6000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>88.0338</b>	<b>88.0338</b>	<b>2.7200e-003</b>	<b>2.5900e-003</b>	<b>88.8728</b>

Manzanita Park - 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 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.0971</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	0.0338	0.0223	0.2784	8.3000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		85.8634	85.8634	2.4600e-003	2.4100e-003	86.6434
<b>Total</b>	<b>0.0338</b>	<b>0.0223</b>	<b>0.2784</b>	<b>8.3000e-004</b>	<b>0.1068</b>	<b>5.0000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.6000e-004</b>	<b>0.0288</b>		<b>85.8634</b>	<b>85.8634</b>	<b>2.4600e-003</b>	<b>2.4100e-003</b>	<b>86.6434</b>

Manzanita Park - 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 Architectural Coating - 2024**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>2.0971</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

**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	0.0338	0.0223	0.2784	8.3000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		85.8634	85.8634	2.4600e-003	2.4100e-003	86.6434
<b>Total</b>	<b>0.0338</b>	<b>0.0223</b>	<b>0.2784</b>	<b>8.3000e-004</b>	<b>0.1068</b>	<b>5.0000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.6000e-004</b>	<b>0.0288</b>		<b>85.8634</b>	<b>85.8634</b>	<b>2.4600e-003</b>	<b>2.4100e-003</b>	<b>86.6434</b>

Manzanita Park - 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 Architectural Coating - 2025**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>2.0872</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.0319	0.0200	0.2616	8.0000e-004	0.1068	4.8000e-004	0.1073	0.0283	4.4000e-004	0.0288		83.8126	83.8126	2.2400e-003	2.2600e-003	84.5419
<b>Total</b>	<b>0.0319</b>	<b>0.0200</b>	<b>0.2616</b>	<b>8.0000e-004</b>	<b>0.1068</b>	<b>4.8000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.4000e-004</b>	<b>0.0288</b>		<b>83.8126</b>	<b>83.8126</b>	<b>2.2400e-003</b>	<b>2.2600e-003</b>	<b>84.5419</b>

Manzanita Park - 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 Architectural Coating - 2025**

**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	1.9164					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>2.0872</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	0.0319	0.0200	0.2616	8.0000e-004	0.1068	4.8000e-004	0.1073	0.0283	4.4000e-004	0.0288		83.8126	83.8126	2.2400e-003	2.2600e-003	84.5419
<b>Total</b>	<b>0.0319</b>	<b>0.0200</b>	<b>0.2616</b>	<b>8.0000e-004</b>	<b>0.1068</b>	<b>4.8000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.4000e-004</b>	<b>0.0288</b>		<b>83.8126</b>	<b>83.8126</b>	<b>2.2400e-003</b>	<b>2.2600e-003</b>	<b>84.5419</b>



Manzanita Park - 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	1.3434	1.5443	13.0850	0.0248	2.8626	0.0186	2.8812	0.7624	0.0174	0.7798		2,589.0328	2,589.0328	0.1845	0.1316	2,632.8642
Unmitigated	1.3878	1.6278	13.7586	0.0266	3.0748	0.0199	3.0946	0.8189	0.0185	0.8374		2,774.1878	2,774.1878	0.1920	0.1386	2,820.2857

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse High Rise	632.48	632.48	632.48	1,460,780	1,359,987
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>632.48</b>	<b>632.48</b>	<b>632.48</b>	<b>1,460,780</b>	<b>1,359,987</b>

**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
Condo/Townhouse High Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

Manzanita Park - 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	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
Parking Lot	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
Condo/Townhouse High Rise	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
Other Asphalt Surfaces	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820
Parking Lot	0.553839	0.058700	0.188468	0.120786	0.022796	0.005663	0.010629	0.007566	0.000983	0.000556	0.026354	0.000841	0.002820

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	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
	lb/day										lb/day					
NaturalGas Mitigated	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
NaturalGas Unmitigated	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821

Manzanita Park - 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 - Natural Gas**

**Unmitigated**

	Natural Gas 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					
Condo/Townhouse High Rise	1538.55	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0166</b>	<b>0.1418</b>	<b>0.0603</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>		<b>181.0065</b>	<b>181.0065</b>	<b>3.4700e-003</b>	<b>3.3200e-003</b>	<b>182.0821</b>

Manzanita Park - 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**

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					
Condo/Townhouse High Rise	1.53855	0.0166	0.1418	0.0603	9.1000e-004		0.0115	0.0115		0.0115	0.0115		181.0065	181.0065	3.4700e-003	3.3200e-003	182.0821
Other Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0166</b>	<b>0.1418</b>	<b>0.0603</b>	<b>9.1000e-004</b>		<b>0.0115</b>	<b>0.0115</b>		<b>0.0115</b>	<b>0.0115</b>		<b>181.0065</b>	<b>181.0065</b>	<b>3.4700e-003</b>	<b>3.3200e-003</b>	<b>182.0821</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

Manzanita Park - 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
Category	lb/day										lb/day					
Mitigated	1.8754	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307	0.0000	9.9680	9.9680	9.5700e-003	0.0000	10.2073
Unmitigated	29.4298	0.6728	41.9342	0.0704		5.1989	5.1989		5.1989	5.1989	560.8467	258.2622	819.1089	0.7771	0.0396	850.3487

**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	0.2625					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	27.5544	0.6092	36.4048	0.0701		5.1682	5.1682		5.1682	5.1682	560.8467	248.2941	809.1408	0.7675	0.0396	840.1414
Landscaping	0.1665	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9680	9.9680	9.5700e-003		10.2073
<b>Total</b>	<b>29.4298</b>	<b>0.6728</b>	<b>41.9342</b>	<b>0.0704</b>		<b>5.1989</b>	<b>5.1989</b>		<b>5.1989</b>	<b>5.1989</b>	<b>560.8467</b>	<b>258.2622</b>	<b>819.1089</b>	<b>0.7771</b>	<b>0.0396</b>	<b>850.3487</b>

Manzanita Park - 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	0.2625					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4464					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	0.1665	0.0637	5.5293	2.9000e-004		0.0307	0.0307		0.0307	0.0307		9.9680	9.9680	9.5700e-003		10.2073
<b>Total</b>	<b>1.8754</b>	<b>0.0637</b>	<b>5.5293</b>	<b>2.9000e-004</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0307</b>	<b>0.0307</b>	<b>0.0000</b>	<b>9.9680</b>	<b>9.9680</b>	<b>9.5700e-003</b>	<b>0.0000</b>	<b>10.2073</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Manzanita Park - 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**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**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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### Manzanita Park

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

#### Bay Area AQMD Air District, Mitigation Report

#### Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### OFFROAD Equipment Mitigation



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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

**Manzanita Park**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	4.50800E-002	3.04090E-001	4.52520E-001	7.40000E-004	1.51000E-002	1.51000E-002	0.00000E+000	6.38313E+001	6.38313E+001	3.61000E-003	0.00000E+000	6.39216E+001
Cranes	7.25100E-002	7.63560E-001	3.89080E-001	1.26000E-003	3.19500E-002	2.94000E-002	0.00000E+000	1.10895E+002	1.10895E+002	3.58700E-002	0.00000E+000	1.11792E+002
Excavators	4.25000E-003	3.48400E-002	7.33000E-002	1.20000E-004	1.71000E-003	1.57000E-003	0.00000E+000	1.02080E+001	1.02080E+001	3.30000E-003	0.00000E+000	1.02905E+001
Forklifts	7.06900E-002	6.63370E-001	8.54370E-001	1.15000E-003	3.83200E-002	3.52500E-002	0.00000E+000	1.00718E+002	1.00718E+002	3.25700E-002	0.00000E+000	1.01533E+002
Generator Sets	7.12700E-002	6.36480E-001	9.16010E-001	1.64000E-003	2.77100E-002	2.77100E-002	0.00000E+000	1.41302E+002	1.41302E+002	5.71000E-003	0.00000E+000	1.41445E+002
Graders	8.63000E-003	1.04690E-001	3.80800E-002	1.50000E-004	3.39000E-003	3.12000E-003	0.00000E+000	1.30809E+001	1.30809E+001	4.23000E-003	0.00000E+000	1.31867E+001
Pavers	2.88000E-003	2.82400E-002	4.32500E-002	7.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	6.19449E+000	6.19449E+000	2.00000E-003	0.00000E+000	6.24458E+000
Paving Equipment	2.56000E-003	2.40400E-002	3.83500E-002	6.00000E-005	1.17000E-003	1.08000E-003	0.00000E+000	5.36782E+000	5.36782E+000	1.74000E-003	0.00000E+000	5.41122E+000
Rollers	2.31000E-003	2.41500E-002	2.77800E-002	4.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	3.45784E+000	3.45784E+000	1.12000E-003	0.00000E+000	3.48580E+000
Rubber Tired Dozers	6.16200E-002	6.41440E-001	2.79570E-001	7.70000E-004	2.88800E-002	2.65700E-002	0.00000E+000	6.75218E+001	6.75218E+001	2.18400E-002	0.00000E+000	6.80678E+001
Tractors/Loaders/Backhoes	1.17460E-001	1.18669E+000	1.81694E+000	2.54000E-003	5.49200E-002	5.05200E-002	0.00000E+000	2.22761E+002	2.22761E+002	7.20500E-002	0.00000E+000	2.24562E+002
Welders	5.90100E-002	3.45020E-001	4.15980E-001	6.40000E-004	1.18900E-002	1.18900E-002	0.00000E+000	4.70552E+001	4.70552E+001	4.79000E-003	0.00000E+000	4.71750E+001

**Manzanita Park**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	4.50800E-002	3.04090E-001	4.52520E-001	7.40000E-004	1.51000E-002	1.51000E-002	0.00000E+000	6.38313E+001	6.38313E+001	3.61000E-003	0.00000E+000	6.39215E+001
Cranes	7.25100E-002	7.63550E-001	3.89080E-001	1.26000E-003	3.19500E-002	2.94000E-002	0.00000E+000	1.10895E+002	1.10895E+002	3.58700E-002	0.00000E+000	1.11791E+002
Excavators	4.25000E-003	3.48400E-002	7.33000E-002	1.20000E-004	1.71000E-003	1.57000E-003	0.00000E+000	1.02080E+001	1.02080E+001	3.30000E-003	0.00000E+000	1.02905E+001
Forklifts	7.06900E-002	6.63360E-001	8.54370E-001	1.15000E-003	3.83200E-002	3.52500E-002	0.00000E+000	1.00718E+002	1.00718E+002	3.25700E-002	0.00000E+000	1.01533E+002
Generator Sets	7.12700E-002	6.36480E-001	9.16010E-001	1.64000E-003	2.77100E-002	2.77100E-002	0.00000E+000	1.41302E+002	1.41302E+002	5.71000E-003	0.00000E+000	1.41444E+002
Graders	8.63000E-003	1.04690E-001	3.80800E-002	1.50000E-004	3.39000E-003	3.12000E-003	0.00000E+000	1.30809E+001	1.30809E+001	4.23000E-003	0.00000E+000	1.31867E+001
Pavers	2.88000E-003	2.82400E-002	4.32500E-002	7.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	6.19449E+000	6.19449E+000	2.00000E-003	0.00000E+000	6.24457E+000
Paving Equipment	2.56000E-003	2.40400E-002	3.83500E-002	6.00000E-005	1.17000E-003	1.08000E-003	0.00000E+000	5.36781E+000	5.36781E+000	1.74000E-003	0.00000E+000	5.41121E+000
Rollers	2.31000E-003	2.41500E-002	2.77800E-002	4.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	3.45783E+000	3.45783E+000	1.12000E-003	0.00000E+000	3.48579E+000
Rubber Tired Dozers	6.16200E-002	6.41440E-001	2.79570E-001	7.70000E-004	2.88800E-002	2.65700E-002	0.00000E+000	6.75217E+001	6.75217E+001	2.18400E-002	0.00000E+000	6.80677E+001
Tractors/Loaders/Balckhoes	1.17460E-001	1.18668E+000	1.81693E+000	2.54000E-003	5.49200E-002	5.05200E-002	0.00000E+000	2.22761E+002	2.22761E+002	7.20500E-002	0.00000E+000	2.24562E+002
Welders	5.90100E-002	3.45020E-001	4.15970E-001	6.40000E-004	1.18900E-002	1.18900E-002	0.00000E+000	4.70551E+001	4.70551E+001	4.79000E-003	0.00000E+000	4.71750E+001

**Manzanita Park**

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.09664E-006	1.09664E-006	0.00000E+000	0.00000E+000	1.25153E-006
Cranes	0.00000E+000	1.30965E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17228E-006	1.17228E-006	0.00000E+000	0.00000E+000	1.16288E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.79626E-007	9.79626E-007	0.00000E+000	0.00000E+000	9.71768E-007
Forklifts	0.00000E+000	1.50745E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19144E-006	1.19144E-006	0.00000E+000	0.00000E+000	1.18188E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13233E-006	1.13233E-006	0.00000E+000	0.00000E+000	1.20188E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.52894E-006	1.52894E-006	0.00000E+000	0.00000E+000	7.58341E-007
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.60139E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.86295E-006	1.86295E-006	0.00000E+000	0.00000E+000	1.84801E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.89198E-006	2.89198E-006	0.00000E+000	0.00000E+000	2.86878E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18480E-006	1.18480E-006	0.00000E+000	0.00000E+000	1.17530E-006
Tractors/Loaders/Backhoes	0.00000E+000	8.42680E-006	5.50376E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16717E-006	1.16717E-006	0.00000E+000	0.00000E+000	1.20234E-006
Welders	0.00000E+000	0.00000E+000	2.40396E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.27510E-006	1.27510E-006	0.00000E+000	0.00000E+000	1.27186E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction		

**Manzanita Park**

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

No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.15	0.04	0.15	0.04	0.00	0.00
Grading	Fugitive Dust	0.16	0.08	0.16	0.08	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.44	0.23	0.44	0.23	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

### Manzanita Park

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	3.11	5.15	5.06	6.58	6.09	5.95	0.00	6.68	6.68	4.08	5.04	6.65
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.79	3.99	0.02	0.00	1.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

#### Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.08	0.28		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.11	0.40		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.05			

**Manzanita Park**

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

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.07			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00

**Manzanita Park**

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

No	Commuter	Provide Ride Sharing Program	5.00		
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.07		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		



**Manzanita Park**

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	0.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

### Manzanita Park

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	