

# Appendix I

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## CalEEMod Outputs for Alternatives



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Alternative 2

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	0.00	1000sqft	0.00	0.00	0
Unrefrigerated Warehouse-No Rail	520.00	1000sqft	11.94	520,000.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative scenario for project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

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Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier to reflect required mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water efficient features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - All on-site fork-lifts and yard trucks electric powered. Emissions calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA

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Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00

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tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00



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tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1339	1.7160	0.8898	2.9200e-003	0.5873	0.0601	0.6475	0.1828	0.0556	0.2384	0.0000	270.9168	270.9168	0.0481	0.0000	272.1202
2022	0.5529	5.0034	4.8151	0.0169	0.9765	0.1272	1.1037	0.2790	0.1191	0.3981	0.0000	1,556.0834	1,556.0834	0.1455	0.0000	1,559.7204
2023	1.5226	3.2784	4.0172	0.0137	0.7305	0.0888	0.8193	0.1970	0.0834	0.2804	0.0000	1,254.8889	1,254.8889	0.1077	0.0000	1,257.5820
2024	1.4378	0.0145	0.0463	1.3000e-004	0.0112	6.9000e-004	0.0119	2.9700e-003	6.8000e-004	3.6500e-003	0.0000	11.3033	11.3033	3.4000e-004	0.0000	11.3117
<b>Maximum</b>	<b>1.5226</b>	<b>5.0034</b>	<b>4.8151</b>	<b>0.0169</b>	<b>0.9765</b>	<b>0.1272</b>	<b>1.1037</b>	<b>0.2790</b>	<b>0.1191</b>	<b>0.3981</b>	<b>0.0000</b>	<b>1,556.0834</b>	<b>1,556.0834</b>	<b>0.1455</b>	<b>0.0000</b>	<b>1,559.7204</b>

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**2.1 Overall Construction**

**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					
2021	0.1173	1.6799	0.9445	2.9200e-003	0.2961	0.0506	0.3467	0.0906	0.0466	0.1373	0.0000	270.9167	270.9167	0.0481	0.0000	272.1201
2022	0.4647	4.4989	5.0271	0.0169	0.8940	0.0668	0.9609	0.2481	0.0625	0.3106	0.0000	1,556.0830	1,556.0830	0.1455	0.0000	1,559.7200
2023	1.4571	2.9366	4.1770	0.0137	0.7305	0.0441	0.7746	0.1970	0.0413	0.2383	0.0000	1,254.8886	1,254.8886	0.1077	0.0000	1,257.5817
2024	1.4366	0.0129	0.0466	1.3000e-004	0.0112	1.2000e-004	0.0113	2.9700e-003	1.1000e-004	3.0800e-003	0.0000	11.3033	11.3033	3.4000e-004	0.0000	11.3117
<b>Maximum</b>	<b>1.4571</b>	<b>4.4989</b>	<b>5.0271</b>	<b>0.0169</b>	<b>0.8940</b>	<b>0.0668</b>	<b>0.9609</b>	<b>0.2481</b>	<b>0.0625</b>	<b>0.3106</b>	<b>0.0000</b>	<b>1,556.0830</b>	<b>1,556.0830</b>	<b>0.1455</b>	<b>0.0000</b>	<b>1,559.7200</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>4.70</b>	<b>8.83</b>	<b>-4.37</b>	<b>0.00</b>	<b>16.21</b>	<b>41.61</b>	<b>18.93</b>	<b>18.59</b>	<b>41.80</b>	<b>25.11</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-4-2021	1-3-2022	1.8744	1.8194
2	1-4-2022	4-3-2022	1.6503	1.5207
3	4-4-2022	7-3-2022	1.2720	1.1176
4	7-4-2022	10-3-2022	1.2862	1.1302
5	10-4-2022	1-3-2023	1.2881	1.1330
6	1-4-2023	4-3-2023	1.0680	0.9442
7	4-4-2023	7-3-2023	1.0727	0.9475
8	7-4-2023	10-3-2023	1.0847	0.9581

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9	10-4-2023	1-3-2024	1.7708	1.7440
10	1-4-2024	4-3-2024	1.1933	1.1909
		Highest	1.8744	1.8194

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	2.1759	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304
Energy	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	99.2220	0.0000	99.2220	5.8639	0.0000	245.8183
Water						0.0000	0.0000		0.0000	0.0000	38.1498	0.0000	38.1498	3.9184	0.0925	163.6796
<b>Total</b>	<b>2.1816</b>	<b>0.0519</b>	<b>0.0581</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>137.3718</b>	<b>56.3593</b>	<b>193.7311</b>	<b>9.7834</b>	<b>0.0936</b>	<b>466.1938</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	2.1759	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304
Energy	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	99.2220	0.0000	99.2220	5.8639	0.0000	245.8183
Water						0.0000	0.0000		0.0000	0.0000	30.5198	0.0000	30.5198	3.1347	0.0740	130.9437
<b>Total</b>	<b>2.1816</b>	<b>0.0519</b>	<b>0.0581</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>3.9800e-003</b>	<b>3.9800e-003</b>	<b>129.7418</b>	<b>56.3593</b>	<b>186.1011</b>	<b>8.9997</b>	<b>0.0751</b>	<b>433.4579</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.55	0.00	3.94	8.01	19.78	7.02

**3.0 Construction Detail**

**Construction Phase**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 780,000; Non-Residential Outdoor: 260,000; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	15.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	510.00	199.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2021**

**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					0.2440	0.0000	0.2440	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.2440</b>	<b>0.0233</b>	<b>0.2673</b>	<b>0.0370</b>	<b>0.0216</b>	<b>0.0586</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**3.2 Demolition - 2021**

**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	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
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	9.4000e-004	6.9000e-004	7.8400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.1502	2.1502	6.0000e-005	0.0000	2.1517
<b>Total</b>	<b>9.2200e-003</b>	<b>0.2947</b>	<b>0.0702</b>	<b>8.8000e-004</b>	<b>0.0219</b>	<b>9.1000e-004</b>	<b>0.0228</b>	<b>5.9800e-003</b>	<b>8.7000e-004</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>86.3779</b>	<b>86.3779</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>86.5235</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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0360	0.4651	0.3553	5.8000e-004		0.0165	0.0165		0.0152	0.0152	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0360</b>	<b>0.4651</b>	<b>0.3553</b>	<b>5.8000e-004</b>	<b>0.1098</b>	<b>0.0165</b>	<b>0.1263</b>	<b>0.0166</b>	<b>0.0152</b>	<b>0.0318</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>



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**3.2 Demolition - 2021**

**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	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
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	9.4000e-004	6.9000e-004	7.8400e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.1502	2.1502	6.0000e-005	0.0000	2.1517
<b>Total</b>	<b>9.2200e-003</b>	<b>0.2947</b>	<b>0.0702</b>	<b>8.8000e-004</b>	<b>0.0219</b>	<b>9.1000e-004</b>	<b>0.0228</b>	<b>5.9800e-003</b>	<b>8.7000e-004</b>	<b>6.8500e-003</b>	<b>0.0000</b>	<b>86.3779</b>	<b>86.3779</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>86.5235</b>

**3.3 Site Preparation - 2021**

**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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>

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**3.3 Site Preparation - 2021**

**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	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>7.5000e-004</b>	<b>5.5000e-004</b>	<b>6.2700e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7202</b>	<b>1.7202</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7213</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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.0813</b>	<b>0.0204</b>	<b>0.1017</b>	<b>0.0447</b>	<b>0.0188</b>	<b>0.0635</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

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**3.3 Site Preparation - 2021**

**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	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>7.5000e-004</b>	<b>5.5000e-004</b>	<b>6.2700e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7202</b>	<b>1.7202</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7213</b>

**3.4 Grading - 2021**

**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					0.1048	0.0000	0.1048	0.0313	0.0000	0.0313	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3480	0.2316	4.7000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	40.8712	40.8712	0.0132	0.0000	41.2017
<b>Total</b>	<b>0.0314</b>	<b>0.3480</b>	<b>0.2316</b>	<b>4.7000e-004</b>	<b>0.1048</b>	<b>0.0149</b>	<b>0.1197</b>	<b>0.0313</b>	<b>0.0137</b>	<b>0.0450</b>	<b>0.0000</b>	<b>40.8712</b>	<b>40.8712</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2017</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.1500e-003</b>	<b>0.1962</b>	<b>0.0467</b>	<b>5.9000e-004</b>	<b>0.0340</b>	<b>6.0000e-004</b>	<b>0.0346</b>	<b>8.7600e-003</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>57.5106</b>	<b>57.5106</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>57.6076</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					0.0472	0.0000	0.0472	0.0141	0.0000	0.0141	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.3185	0.2544	4.7000e-004		0.0121	0.0121		0.0112	0.0112	0.0000	40.8712	40.8712	0.0132	0.0000	41.2017
<b>Total</b>	<b>0.0264</b>	<b>0.3185</b>	<b>0.2544</b>	<b>4.7000e-004</b>	<b>0.0472</b>	<b>0.0121</b>	<b>0.0593</b>	<b>0.0141</b>	<b>0.0112</b>	<b>0.0252</b>	<b>0.0000</b>	<b>40.8712</b>	<b>40.8712</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2017</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.1500e-003</b>	<b>0.1962</b>	<b>0.0467</b>	<b>5.9000e-004</b>	<b>0.0340</b>	<b>6.0000e-004</b>	<b>0.0346</b>	<b>8.7600e-003</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>57.5106</b>	<b>57.5106</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>57.6076</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1500	0.0000	0.1500	0.0561	0.0000	0.0561	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
<b>Total</b>	<b>0.0544</b>	<b>0.5827</b>	<b>0.4356</b>	<b>9.3000e-004</b>	<b>0.1500</b>	<b>0.0245</b>	<b>0.1745</b>	<b>0.0561</b>	<b>0.0226</b>	<b>0.0787</b>	<b>0.0000</b>	<b>81.8019</b>	<b>81.8019</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4633</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
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	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0116</b>	<b>0.3621</b>	<b>0.0916</b>	<b>1.1600e-003</b>	<b>0.0388</b>	<b>1.0400e-003</b>	<b>0.0399</b>	<b>0.0103</b>	<b>1.0000e-003</b>	<b>0.0114</b>	<b>0.0000</b>	<b>113.5882</b>	<b>113.5882</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>113.7783</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					0.0675	0.0000	0.0675	0.0252	0.0000	0.0252	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0456	0.5449	0.4824	9.3000e-004		0.0199	0.0199		0.0183	0.0183	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
<b>Total</b>	<b>0.0456</b>	<b>0.5449</b>	<b>0.4824</b>	<b>9.3000e-004</b>	<b>0.0675</b>	<b>0.0199</b>	<b>0.0873</b>	<b>0.0252</b>	<b>0.0183</b>	<b>0.0435</b>	<b>0.0000</b>	<b>81.8018</b>	<b>81.8018</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4632</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
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	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0116</b>	<b>0.3621</b>	<b>0.0916</b>	<b>1.1600e-003</b>	<b>0.0388</b>	<b>1.0400e-003</b>	<b>0.0399</b>	<b>0.0103</b>	<b>1.0000e-003</b>	<b>0.0114</b>	<b>0.0000</b>	<b>113.5882</b>	<b>113.5882</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>113.7783</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4840</b>	<b>266.4840</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0801</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0611	2.0997	0.5189	5.7100e-003	0.1443	3.8600e-003	0.1481	0.0416	3.6900e-003	0.0453	0.0000	553.8099	553.8099	0.0340	0.0000	554.6600
Worker	0.2296	0.1632	1.8872	5.9800e-003	0.6435	4.6900e-003	0.6482	0.1709	4.3200e-003	0.1752	0.0000	540.3993	540.3993	0.0136	0.0000	540.7387
<b>Total</b>	<b>0.2906</b>	<b>2.2628</b>	<b>2.4061</b>	<b>0.0117</b>	<b>0.7877</b>	<b>8.5500e-003</b>	<b>0.7963</b>	<b>0.2125</b>	<b>8.0100e-003</b>	<b>0.2205</b>	<b>0.0000</b>	<b>1,094.2093</b>	<b>1,094.2093</b>	<b>0.0476</b>	<b>0.0000</b>	<b>1,095.3987</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	0.1168	1.3290	2.0469	3.1000e-003		0.0374	0.0374		0.0352	0.0352	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
<b>Total</b>	<b>0.1168</b>	<b>1.3290</b>	<b>2.0469</b>	<b>3.1000e-003</b>		<b>0.0374</b>	<b>0.0374</b>		<b>0.0352</b>	<b>0.0352</b>	<b>0.0000</b>	<b>266.4837</b>	<b>266.4837</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0798</b>



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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0611	2.0997	0.5189	5.7100e-003	0.1443	3.8600e-003	0.1481	0.0416	3.6900e-003	0.0453	0.0000	553.8099	553.8099	0.0340	0.0000	554.6600
Worker	0.2296	0.1632	1.8872	5.9800e-003	0.6435	4.6900e-003	0.6482	0.1709	4.3200e-003	0.1752	0.0000	540.3993	540.3993	0.0136	0.0000	540.7387
<b>Total</b>	<b>0.2906</b>	<b>2.2628</b>	<b>2.4061</b>	<b>0.0117</b>	<b>0.7877</b>	<b>8.5500e-003</b>	<b>0.7963</b>	<b>0.2125</b>	<b>8.0100e-003</b>	<b>0.2205</b>	<b>0.0000</b>	<b>1,094.2093</b>	<b>1,094.2093</b>	<b>0.0476</b>	<b>0.0000</b>	<b>1,095.3987</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	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3950	243.3950	0.0579	0.0000	244.8425
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3950</b>	<b>243.3950</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8425</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0416	1.4425	0.4236	5.0500e-003	0.1317	1.6400e-003	0.1334	0.0380	1.5700e-003	0.0396	0.0000	490.4109	490.4109	0.0270	0.0000	491.0857
Worker	0.1973	0.1348	1.5888	5.2500e-003	0.5875	4.1700e-003	0.5917	0.1560	3.8400e-003	0.1599	0.0000	475.0068	475.0068	0.0112	0.0000	475.2860
<b>Total</b>	<b>0.2389</b>	<b>1.5773</b>	<b>2.0123</b>	<b>0.0103</b>	<b>0.7192</b>	<b>5.8100e-003</b>	<b>0.7250</b>	<b>0.1940</b>	<b>5.4100e-003</b>	<b>0.1994</b>	<b>0.0000</b>	<b>965.4177</b>	<b>965.4177</b>	<b>0.0382</b>	<b>0.0000</b>	<b>966.3717</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	0.1007	1.1704	1.8652	2.8300e-003		0.0293	0.0293		0.0276	0.0276	0.0000	243.3947	243.3947	0.0579	0.0000	244.8422
<b>Total</b>	<b>0.1007</b>	<b>1.1704</b>	<b>1.8652</b>	<b>2.8300e-003</b>		<b>0.0293</b>	<b>0.0293</b>		<b>0.0276</b>	<b>0.0276</b>	<b>0.0000</b>	<b>243.3947</b>	<b>243.3947</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8422</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0416	1.4425	0.4236	5.0500e-003	0.1317	1.6400e-003	0.1334	0.0380	1.5700e-003	0.0396	0.0000	490.4109	490.4109	0.0270	0.0000	491.0857
Worker	0.1973	0.1348	1.5888	5.2500e-003	0.5875	4.1700e-003	0.5917	0.1560	3.8400e-003	0.1599	0.0000	475.0068	475.0068	0.0112	0.0000	475.2860
<b>Total</b>	<b>0.2389</b>	<b>1.5773</b>	<b>2.0123</b>	<b>0.0103</b>	<b>0.7192</b>	<b>5.8100e-003</b>	<b>0.7250</b>	<b>0.1940</b>	<b>5.4100e-003</b>	<b>0.1994</b>	<b>0.0000</b>	<b>965.4177</b>	<b>965.4177</b>	<b>0.0382</b>	<b>0.0000</b>	<b>966.3717</b>

**3.6 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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 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	9.7000e-004	6.6000e-004	7.7900e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3285	2.3285	5.0000e-005	0.0000	2.3298
<b>Total</b>	<b>9.7000e-004</b>	<b>6.6000e-004</b>	<b>7.7900e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.3285</b>	<b>2.3285</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3298</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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 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	9.7000e-004	6.6000e-004	7.7900e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.3285	2.3285	5.0000e-005	0.0000	2.3298
<b>Total</b>	<b>9.7000e-004</b>	<b>6.6000e-004</b>	<b>7.7900e-003</b>	<b>3.0000e-005</b>	<b>2.8800e-003</b>	<b>2.0000e-005</b>	<b>2.9000e-003</b>	<b>7.6000e-004</b>	<b>2.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>2.3285</b>	<b>2.3285</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>2.3298</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>1.0758</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8200e-003</b>	<b>1.9300e-003</b>	<b>0.0227</b>	<b>8.0000e-005</b>	<b>8.3900e-003</b>	<b>6.0000e-005</b>	<b>8.4500e-003</b>	<b>2.2300e-003</b>	<b>5.0000e-005</b>	<b>2.2800e-003</b>	<b>0.0000</b>	<b>6.7858</b>	<b>6.7858</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.7898</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	1.0743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1000e-004	7.9500e-003	0.0137	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>1.0747</b>	<b>7.9500e-003</b>	<b>0.0137</b>	<b>2.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8200e-003	1.9300e-003	0.0227	8.0000e-005	8.3900e-003	6.0000e-005	8.4500e-003	2.2300e-003	5.0000e-005	2.2800e-003	0.0000	6.7858	6.7858	1.6000e-004	0.0000	6.7898
<b>Total</b>	<b>2.8200e-003</b>	<b>1.9300e-003</b>	<b>0.0227</b>	<b>8.0000e-005</b>	<b>8.3900e-003</b>	<b>6.0000e-005</b>	<b>8.4500e-003</b>	<b>2.2300e-003</b>	<b>5.0000e-005</b>	<b>2.2800e-003</b>	<b>0.0000</b>	<b>6.7858</b>	<b>6.7858</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>6.7898</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
<b>Total</b>	<b>1.4343</b>	<b>0.0122</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5569</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5600e-003	2.3400e-003	0.0282	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9700e-003	7.0000e-005	3.0400e-003	0.0000	8.7500	8.7500	1.9000e-004	0.0000	8.7549
<b>Total</b>	<b>3.5600e-003</b>	<b>2.3400e-003</b>	<b>0.0282</b>	<b>1.0000e-004</b>	<b>0.0112</b>	<b>8.0000e-005</b>	<b>0.0113</b>	<b>2.9700e-003</b>	<b>7.0000e-005</b>	<b>3.0400e-003</b>	<b>0.0000</b>	<b>8.7500</b>	<b>8.7500</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>8.7549</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	1.4324					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-004	0.0106	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
<b>Total</b>	<b>1.4330</b>	<b>0.0106</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5568</b>



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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5600e-003	2.3400e-003	0.0282	1.0000e-004	0.0112	8.0000e-005	0.0113	2.9700e-003	7.0000e-005	3.0400e-003	0.0000	8.7500	8.7500	1.9000e-004	0.0000	8.7549
<b>Total</b>	<b>3.5600e-003</b>	<b>2.3400e-003</b>	<b>0.0282</b>	<b>1.0000e-004</b>	<b>0.0112</b>	<b>8.0000e-005</b>	<b>0.0113</b>	<b>2.9700e-003</b>	<b>7.0000e-005</b>	<b>3.0400e-003</b>	<b>0.0000</b>	<b>8.7500</b>	<b>8.7500</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>8.7549</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	0.00	0.00	0.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656
NaturalGas Unmitigated	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	1.0556e+006	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656
<b>Total</b>		<b>5.6900e-003</b>	<b>0.0518</b>	<b>0.0435</b>	<b>3.1000e-004</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>56.3308</b>	<b>56.3308</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.6656</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**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	tons/yr										MT/yr					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	1.0556e+006	5.6900e-003	0.0518	0.0435	3.1000e-004		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	56.3308	56.3308	1.0800e-003	1.0300e-003	56.6656
<b>Total</b>		<b>5.6900e-003</b>	<b>0.0518</b>	<b>0.0435</b>	<b>3.1000e-004</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>		<b>3.9300e-003</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>56.3308</b>	<b>56.3308</b>	<b>1.0800e-003</b>	<b>1.0300e-003</b>	<b>56.6656</b>

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.2272e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.2272e+006	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive 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	2.1759	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304
Unmitigated	2.1759	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304

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	0.2507					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3500e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304
<b>Total</b>	<b>2.1759</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0304</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**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	0.2507					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9239					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3500e-003	1.3000e-004	0.0146	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0285	0.0285	7.0000e-005	0.0000	0.0304
<b>Total</b>	<b>2.1759</b>	<b>1.3000e-004</b>	<b>0.0146</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0285</b>	<b>0.0285</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0304</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5198	3.1347	0.0740	130.9437
Unmitigated	38.1498	3.9184	0.0925	163.6796

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	120.25 / 0	38.1498	3.9184	0.0925	163.6796
<b>Total</b>		<b>38.1498</b>	<b>3.9184</b>	<b>0.0925</b>	<b>163.6796</b>

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	96.2 / 0	30.5198	3.1347	0.0740	130.9437
<b>Total</b>		<b>30.5198</b>	<b>3.1347</b>	<b>0.0740</b>	<b>130.9437</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	99.2220	5.8639	0.0000	245.8183
Unmitigated	99.2220	5.8639	0.0000	245.8183

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	488.8	99.2220	5.8639	0.0000	245.8183
<b>Total</b>		<b>99.2220</b>	<b>5.8639</b>	<b>0.0000</b>	<b>245.8183</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	488.8	99.2220	5.8639	0.0000	245.8183
<b>Total</b>		<b>99.2220</b>	<b>5.8639</b>	<b>0.0000</b>	<b>245.8183</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

**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**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Annual

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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Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	0.00	1000sqft	0.00	0.00	0
Unrefrigerated Warehouse-No Rail	520.00	1000sqft	11.94	520,000.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative scenario for project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier to reflect required mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water efficient features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - All on-site fork-lifts and yard trucks electric powered. Emissions calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00

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tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.0022	71.7872	36.9943	0.1410	18.2675	2.0655	20.3134	9.9840	1.9032	11.8663	0.0000	14,534.9803	14,534.9803	2.5029	0.0000	14,597.5532
2022	4.3939	62.3000	38.3860	0.1400	11.3085	1.7040	13.0125	4.2978	1.5702	5.8679	0.0000	14,433.4349	14,433.4349	2.4937	0.0000	14,495.7780
2023	143.8155	29.1464	36.4856	0.1282	6.9742	0.7548	7.7290	1.8785	0.7096	2.5881	0.0000	13,008.8214	13,008.8214	1.0069	0.0000	13,033.9949
2024	143.7843	1.4268	4.8753	0.0131	1.1401	0.0688	1.2089	0.3024	0.0681	0.3705	0.0000	1,295.5412	1,295.5412	0.0386	0.0000	1,296.5048
<b>Maximum</b>	<b>143.8155</b>	<b>71.7872</b>	<b>38.3860</b>	<b>0.1410</b>	<b>18.2675</b>	<b>2.0655</b>	<b>20.3134</b>	<b>9.9840</b>	<b>1.9032</b>	<b>11.8663</b>	<b>0.0000</b>	<b>14,534.9803</b>	<b>14,534.9803</b>	<b>2.5029</b>	<b>0.0000</b>	<b>14,597.5532</b>



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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Energy	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
Mobile	0.0000	0.0000	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>11.9576</b>	<b>0.2846</b>	<b>0.3553</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>		<b>340.4931</b>	<b>340.4931</b>	<b>7.1800e-003</b>	<b>6.2400e-003</b>	<b>342.5314</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	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Energy	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
Mobile	0.0000	0.0000	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>11.9576</b>	<b>0.2846</b>	<b>0.3553</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>		<b>340.4931</b>	<b>340.4931</b>	<b>7.1800e-003</b>	<b>6.2400e-003</b>	<b>342.5314</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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 780,000; Non-Residential Outdoor: 260,000; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	510.00	199.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2021**

**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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
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
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
<b>Total</b>	<b>0.6090</b>	<b>19.0658</b>	<b>4.5922</b>	<b>0.0593</b>	<b>1.4817</b>	<b>0.0602</b>	<b>1.5419</b>	<b>0.4046</b>	<b>0.0576</b>	<b>0.4621</b>		<b>6,404.2480</b>	<b>6,404.2480</b>	<b>0.4206</b>		<b>6,414.7641</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	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	2.3981	31.0044	23.6882	0.0388		1.0987	1.0987		1.0135	1.0135	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>2.3981</b>	<b>31.0044</b>	<b>23.6882</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.0987</b>	<b>8.4191</b>	<b>1.1084</b>	<b>1.0135</b>	<b>2.1218</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
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
Worker	0.0633	0.0411	0.5651	1.6700e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		166.1105	166.1105	4.4700e-003		166.2222
<b>Total</b>	<b>0.6090</b>	<b>19.0658</b>	<b>4.5922</b>	<b>0.0593</b>	<b>1.4817</b>	<b>0.0602</b>	<b>1.5419</b>	<b>0.4046</b>	<b>0.0576</b>	<b>0.4621</b>		<b>6,404.2480</b>	<b>6,404.2480</b>	<b>0.4206</b>		<b>6,414.7641</b>

**3.3 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

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**3.3 Site Preparation - 2021**

**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
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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0760</b>	<b>0.0493</b>	<b>0.6781</b>	<b>2.0000e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>199.3326</b>	<b>199.3326</b>	<b>5.3600e-003</b>		<b>199.4666</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

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**3.3 Site Preparation - 2021**

**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
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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0760</b>	<b>0.0493</b>	<b>0.6781</b>	<b>2.0000e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>199.3326</b>	<b>199.3326</b>	<b>5.3600e-003</b>		<b>199.4666</b>

**3.4 Grading - 2021**

**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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>8.6733</b>	<b>1.9853</b>	<b>10.6587</b>	<b>3.5965</b>	<b>1.8265</b>	<b>5.4230</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

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**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8110</b>	<b>25.3874</b>	<b>6.1158</b>	<b>0.0790</b>	<b>4.6210</b>	<b>0.0802</b>	<b>4.7012</b>	<b>1.1887</b>	<b>0.0766</b>	<b>1.2653</b>		<b>8,527.936 8</b>	<b>8,527.936 8</b>	<b>0.5601</b>		<b>8,541.939 8</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	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.5151	42.4662	33.9195	0.0620		1.6165	1.6165		1.4894	1.4894	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>3.5151</b>	<b>42.4662</b>	<b>33.9195</b>	<b>0.0620</b>	<b>3.9030</b>	<b>1.6165</b>	<b>5.5195</b>	<b>1.6184</b>	<b>1.4894</b>	<b>3.1079</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8110</b>	<b>25.3874</b>	<b>6.1158</b>	<b>0.0790</b>	<b>4.6210</b>	<b>0.0802</b>	<b>4.7012</b>	<b>1.1887</b>	<b>0.0766</b>	<b>1.2653</b>		<b>8,527.936 8</b>	<b>8,527.936 8</b>	<b>0.5601</b>		<b>8,541.939 8</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.410 5</b>	<b>6,011.410 5</b>	<b>1.9442</b>		<b>6,060.015 8</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
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
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7691</b>	<b>23.4565</b>	<b>5.9981</b>	<b>0.0779</b>	<b>2.6352</b>	<b>0.0691</b>	<b>2.7043</b>	<b>0.7013</b>	<b>0.0661</b>	<b>0.7673</b>		<b>8,422.0244</b>	<b>8,422.0244</b>	<b>0.5495</b>		<b>8,435.7622</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	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.0403	36.3297	32.1613	0.0621		1.3236	1.3236		1.2199	1.2199	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.0403</b>	<b>36.3297</b>	<b>32.1613</b>	<b>0.0621</b>	<b>3.9030</b>	<b>1.3236</b>	<b>5.2266</b>	<b>1.6184</b>	<b>1.2199</b>	<b>2.8384</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
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
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7691</b>	<b>23.4565</b>	<b>5.9981</b>	<b>0.0779</b>	<b>2.6352</b>	<b>0.0691</b>	<b>2.7043</b>	<b>0.7013</b>	<b>0.0661</b>	<b>0.7673</b>		<b>8,422.0244</b>	<b>8,422.0244</b>	<b>0.5495</b>		<b>8,435.7622</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5193	18.0161	4.2566	0.0503	1.2736	0.0331	1.3067	0.3667	0.0317	0.3983		5,374.1766	5,374.1766	0.3157		5,382.0695
Worker	2.0194	1.2612	17.7660	0.0546	5.7006	0.0408	5.7414	1.5118	0.0375	1.5494		5,445.3921	5,445.3921	0.1373		5,448.8236
<b>Total</b>	<b>2.5386</b>	<b>19.2773</b>	<b>22.0226</b>	<b>0.1049</b>	<b>6.9742</b>	<b>0.0739</b>	<b>7.0481</b>	<b>1.8785</b>	<b>0.0692</b>	<b>1.9477</b>		<b>10,819.5686</b>	<b>10,819.5686</b>	<b>0.4530</b>		<b>10,830.8931</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	lb/day										lb/day					
Off-Road	1.0160	11.5567	17.7994	0.0269		0.3250	0.3250		0.3061	0.3061	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.0160</b>	<b>11.5567</b>	<b>17.7994</b>	<b>0.0269</b>		<b>0.3250</b>	<b>0.3250</b>		<b>0.3061</b>	<b>0.3061</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5193	18.0161	4.2566	0.0503	1.2736	0.0331	1.3067	0.3667	0.0317	0.3983		5,374.1766	5,374.1766	0.3157		5,382.0695
Worker	2.0194	1.2612	17.7660	0.0546	5.7006	0.0408	5.7414	1.5118	0.0375	1.5494		5,445.3921	5,445.3921	0.1373		5,448.8236
<b>Total</b>	<b>2.5386</b>	<b>19.2773</b>	<b>22.0226</b>	<b>0.1049</b>	<b>6.9742</b>	<b>0.0739</b>	<b>7.0481</b>	<b>1.8785</b>	<b>0.0692</b>	<b>1.9477</b>		<b>10,819.5686</b>	<b>10,819.5686</b>	<b>0.4530</b>		<b>10,830.8931</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	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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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	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
Vendor	0.3874	13.6203	3.8351	0.0487	1.2736	0.0153	1.2889	0.3667	0.0146	0.3813		5,211.1676	5,211.1676	0.2753		5,218.0502
Worker	1.8987	1.1412	16.4065	0.0526	5.7006	0.0397	5.7403	1.5118	0.0366	1.5484		5,242.4439	5,242.4439	0.1238		5,245.5387
<b>Total</b>	<b>2.2861</b>	<b>14.7615</b>	<b>20.2416</b>	<b>0.1013</b>	<b>6.9742</b>	<b>0.0550</b>	<b>7.0292</b>	<b>1.8785</b>	<b>0.0512</b>	<b>1.9297</b>		<b>10,453.6114</b>	<b>10,453.6114</b>	<b>0.3991</b>		<b>10,463.5889</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	lb/day										lb/day					
Off-Road	0.9587	11.1469	17.7641	0.0269		0.2787	0.2787		0.2628	0.2628	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.9587</b>	<b>11.1469</b>	<b>17.7641</b>	<b>0.0269</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2628</b>	<b>0.2628</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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	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
Vendor	0.3874	13.6203	3.8351	0.0487	1.2736	0.0153	1.2889	0.3667	0.0146	0.3813		5,211.1676	5,211.1676	0.2753		5,218.0502
Worker	1.8987	1.1412	16.4065	0.0526	5.7006	0.0397	5.7403	1.5118	0.0366	1.5484		5,242.4439	5,242.4439	0.1238		5,245.5387
<b>Total</b>	<b>2.2861</b>	<b>14.7615</b>	<b>20.2416</b>	<b>0.1013</b>	<b>6.9742</b>	<b>0.0550</b>	<b>7.0292</b>	<b>1.8785</b>	<b>0.0512</b>	<b>1.9297</b>		<b>10,453.6114</b>	<b>10,453.6114</b>	<b>0.3991</b>		<b>10,463.5889</b>

**3.6 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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.6 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	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
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
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
<b>Total</b>	<b>0.0558</b>	<b>0.0336</b>	<b>0.4825</b>	<b>1.5500e-003</b>	<b>0.1677</b>	<b>1.1700e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0800e-003</b>	<b>0.0455</b>		<b>154.1895</b>	<b>154.1895</b>	<b>3.6400e-003</b>		<b>154.2806</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	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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.6 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	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
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
Worker	0.0558	0.0336	0.4825	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		154.1895	154.1895	3.6400e-003		154.2806
<b>Total</b>	<b>0.0558</b>	<b>0.0336</b>	<b>0.4825</b>	<b>1.5500e-003</b>	<b>0.1677</b>	<b>1.1700e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0800e-003</b>	<b>0.0455</b>		<b>154.1895</b>	<b>154.1895</b>	<b>3.6400e-003</b>		<b>154.2806</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.2442					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>143.4358</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3797</b>	<b>0.2282</b>	<b>3.2813</b>	<b>0.0105</b>	<b>1.1401</b>	<b>7.9400e-003</b>	<b>1.1481</b>	<b>0.3024</b>	<b>7.3100e-003</b>	<b>0.3097</b>		<b>1,048.4888</b>	<b>1,048.4888</b>	<b>0.0248</b>		<b>1,049.1077</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	lb/day										lb/day					
Archit. Coating	143.2442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>143.2986</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3797	0.2282	3.2813	0.0105	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		1,048.4888	1,048.4888	0.0248		1,049.1077
<b>Total</b>	<b>0.3797</b>	<b>0.2282</b>	<b>3.2813</b>	<b>0.0105</b>	<b>1.1401</b>	<b>7.9400e-003</b>	<b>1.1481</b>	<b>0.3024</b>	<b>7.3100e-003</b>	<b>0.3097</b>		<b>1,048.4888</b>	<b>1,048.4888</b>	<b>0.0248</b>		<b>1,049.1077</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.2442					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>143.4249</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>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3594</b>	<b>0.2080</b>	<b>3.0651</b>	<b>0.0102</b>	<b>1.1401</b>	<b>7.8400e-003</b>	<b>1.1480</b>	<b>0.3024</b>	<b>7.2100e-003</b>	<b>0.3096</b>		<b>1,014.0931</b>	<b>1,014.0931</b>	<b>0.0227</b>		<b>1,014.6605</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	lb/day										lb/day					
Archit. Coating	143.2442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>143.2986</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3594	0.2080	3.0651	0.0102	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		1,014.0931	1,014.0931	0.0227		1,014.6605
<b>Total</b>	<b>0.3594</b>	<b>0.2080</b>	<b>3.0651</b>	<b>0.0102</b>	<b>1.1401</b>	<b>7.8400e-003</b>	<b>1.1480</b>	<b>0.3024</b>	<b>7.2100e-003</b>	<b>0.3096</b>		<b>1,014.0931</b>	<b>1,014.0931</b>	<b>0.0227</b>		<b>1,014.6605</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	0.00	0.00	0.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
NaturalGas Unmitigated	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	2892.05	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
<b>Total</b>		<b>0.0312</b>	<b>0.2835</b>	<b>0.2382</b>	<b>1.7000e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>		<b>340.2417</b>	<b>340.2417</b>	<b>6.5200e-003</b>	<b>6.2400e-003</b>	<b>342.2636</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**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					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	2.89205	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
<b>Total</b>		<b>0.0312</b>	<b>0.2835</b>	<b>0.2382</b>	<b>1.7000e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>		<b>340.2417</b>	<b>340.2417</b>	<b>6.5200e-003</b>	<b>6.2400e-003</b>	<b>342.2636</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Unmitigated	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
<b>Total</b>	<b>11.9264</b>	<b>1.0600e-003</b>	<b>0.1171</b>	<b>1.0000e-005</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>0.2514</b>	<b>0.2514</b>	<b>6.6000e-004</b>		<b>0.2678</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
<b>Total</b>	<b>11.9264</b>	<b>1.0600e-003</b>	<b>0.1171</b>	<b>1.0000e-005</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>0.2514</b>	<b>0.2514</b>	<b>6.6000e-004</b>		<b>0.2678</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

**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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Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**Oakmont Mission and Ramona Industrial Park**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	0.00	1000sqft	0.00	0.00	0
Unrefrigerated Warehouse-No Rail	520.00	1000sqft	11.94	520,000.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative scenario for project.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier to reflect required mitigation measures.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water efficient features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - All on-site fork-lifts and yard trucks electric powered. Emissions calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Stationary Sources - Emergency Generators and Fire Pumps EF -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	4,505.00	4,506.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.0307	72.0936	37.3121	0.1394	18.2675	2.0667	20.3134	9.9840	1.9043	11.8663	0.0000	14,366.9862	14,366.9862	2.5259	0.0000	14,430.1341
2022	4.4651	62.5552	37.0655	0.1384	11.3085	1.7051	13.0136	4.2978	1.5712	5.8690	0.0000	14,266.4768	14,266.4768	2.5156	0.0000	14,329.3679
2023	143.8531	29.1662	35.1459	0.1234	6.9742	0.7555	7.7297	1.8785	0.7103	2.5888	0.0000	12,519.6187	12,519.6187	1.0164	0.0000	12,545.0286
2024	143.8210	1.4463	4.5489	0.0125	1.1401	0.0688	1.2089	0.3024	0.0681	0.3705	0.0000	1,229.6630	1,229.6630	0.0369	0.0000	1,230.5865
<b>Maximum</b>	<b>143.8531</b>	<b>72.0936</b>	<b>37.3121</b>	<b>0.1394</b>	<b>18.2675</b>	<b>2.0667</b>	<b>20.3134</b>	<b>9.9840</b>	<b>1.9043</b>	<b>11.8663</b>	<b>0.0000</b>	<b>14,366.9862</b>	<b>14,366.9862</b>	<b>2.5259</b>	<b>0.0000</b>	<b>14,430.1341</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Energy	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
Mobile	0.0000	0.0000	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>11.9576</b>	<b>0.2846</b>	<b>0.3553</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>		<b>340.4931</b>	<b>340.4931</b>	<b>7.1800e-003</b>	<b>6.2400e-003</b>	<b>342.5314</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	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Energy	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
Mobile	0.0000	0.0000	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>11.9576</b>	<b>0.2846</b>	<b>0.3553</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>0.0220</b>	<b>0.0220</b>		<b>340.4931</b>	<b>340.4931</b>	<b>7.1800e-003</b>	<b>6.2400e-003</b>	<b>342.5314</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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 780,000; Non-Residential Outdoor: 260,000; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	510.00	199.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	102.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

**3.2 Demolition - 2021**

**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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
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
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
<b>Total</b>	<b>0.6304</b>	<b>19.2959</b>	<b>4.8310</b>	<b>0.0581</b>	<b>1.4817</b>	<b>0.0611</b>	<b>1.5428</b>	<b>0.4046</b>	<b>0.0584</b>	<b>0.4630</b>		<b>6,278.0990</b>	<b>6,278.0990</b>	<b>0.4379</b>		<b>6,289.0469</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	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	2.3981	31.0044	23.6882	0.0388		1.0987	1.0987		1.0135	1.0135	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>2.3981</b>	<b>31.0044</b>	<b>23.6882</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.0987</b>	<b>8.4191</b>	<b>1.1084</b>	<b>1.0135</b>	<b>2.1218</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
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
Worker	0.0692	0.0450	0.5078	1.5600e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1400e-003	0.0456		155.3502	155.3502	4.1600e-003		155.4543
<b>Total</b>	<b>0.6304</b>	<b>19.2959</b>	<b>4.8310</b>	<b>0.0581</b>	<b>1.4817</b>	<b>0.0611</b>	<b>1.5428</b>	<b>0.4046</b>	<b>0.0584</b>	<b>0.4630</b>		<b>6,278.0990</b>	<b>6,278.0990</b>	<b>0.4379</b>		<b>6,289.0469</b>

**3.3 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0830</b>	<b>0.0539</b>	<b>0.6094</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>186.4202</b>	<b>186.4202</b>	<b>5.0000e-003</b>		<b>186.5451</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0830</b>	<b>0.0539</b>	<b>0.6094</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>186.4202</b>	<b>186.4202</b>	<b>5.0000e-003</b>		<b>186.5451</b>

**3.4 Grading - 2021**

**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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>8.6733</b>	<b>1.9853</b>	<b>10.6587</b>	<b>3.5965</b>	<b>1.8265</b>	<b>5.4230</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8395</b>	<b>25.6938</b>	<b>6.4337</b>	<b>0.0774</b>	<b>4.6210</b>	<b>0.0814</b>	<b>4.7024</b>	<b>1.1887</b>	<b>0.0778</b>	<b>1.2665</b>		<b>8,359.942 7</b>	<b>8,359.942 7</b>	<b>0.5831</b>		<b>8,374.520 7</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	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.5151	42.4662	33.9195	0.0620		1.6165	1.6165		1.4894	1.4894	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>3.5151</b>	<b>42.4662</b>	<b>33.9195</b>	<b>0.0620</b>	<b>3.9030</b>	<b>1.6165</b>	<b>5.5195</b>	<b>1.6184</b>	<b>1.4894</b>	<b>3.1079</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8395</b>	<b>25.6938</b>	<b>6.4337</b>	<b>0.0774</b>	<b>4.6210</b>	<b>0.0814</b>	<b>4.7024</b>	<b>1.1887</b>	<b>0.0778</b>	<b>1.2665</b>		<b>8,359.942 7</b>	<b>8,359.942 7</b>	<b>0.5831</b>		<b>8,374.520 7</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.6733</b>	<b>1.6349</b>	<b>10.3082</b>	<b>3.5965</b>	<b>1.5041</b>	<b>5.1006</b>		<b>6,011.410 5</b>	<b>6,011.410 5</b>	<b>1.9442</b>		<b>6,060.015 8</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
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
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.7965</b>	<b>23.7117</b>	<b>6.3021</b>	<b>0.0763</b>	<b>2.6352</b>	<b>0.0702</b>	<b>2.7054</b>	<b>0.7013</b>	<b>0.0671</b>	<b>0.7684</b>		<b>8,255.0663</b>	<b>8,255.0663</b>	<b>0.5714</b>		<b>8,269.3520</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	lb/day										lb/day					
Fugitive Dust					3.9030	0.0000	3.9030	1.6184	0.0000	1.6184			0.0000			0.0000
Off-Road	3.0403	36.3297	32.1613	0.0621		1.3236	1.3236		1.2199	1.2199	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.0403</b>	<b>36.3297</b>	<b>32.1613</b>	<b>0.0621</b>	<b>3.9030</b>	<b>1.3236</b>	<b>5.2266</b>	<b>1.6184</b>	<b>1.2199</b>	<b>2.8384</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
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
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.7965</b>	<b>23.7117</b>	<b>6.3021</b>	<b>0.0763</b>	<b>2.6352</b>	<b>0.0702</b>	<b>2.7054</b>	<b>0.7013</b>	<b>0.0671</b>	<b>0.7684</b>		<b>8,255.0663</b>	<b>8,255.0663</b>	<b>0.5714</b>		<b>8,269.3520</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5468	17.9441	4.7659	0.0489	1.2736	0.0342	1.3078	0.3667	0.0327	0.3994		5,217.665 1	5,217.665 1	0.3389		5,226.136 5
Worker	2.2120	1.3803	15.9362	0.0511	5.7006	0.0408	5.7414	1.5118	0.0375	1.5494		5,092.536 3	5,092.536 3	0.1278		5,095.732 1
<b>Total</b>	<b>2.7588</b>	<b>19.3244</b>	<b>20.7021</b>	<b>0.0999</b>	<b>6.9742</b>	<b>0.0750</b>	<b>7.0492</b>	<b>1.8785</b>	<b>0.0703</b>	<b>1.9487</b>		<b>10,310.20 13</b>	<b>10,310.20 13</b>	<b>0.4667</b>		<b>10,321.86 86</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	lb/day										lb/day					
Off-Road	1.0160	11.5567	17.7994	0.0269		0.3250	0.3250		0.3061	0.3061	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
<b>Total</b>	<b>1.0160</b>	<b>11.5567</b>	<b>17.7994</b>	<b>0.0269</b>		<b>0.3250</b>	<b>0.3250</b>		<b>0.3061</b>	<b>0.3061</b>	<b>0.0000</b>	<b>2,554.333 6</b>	<b>2,554.333 6</b>	<b>0.6120</b>		<b>2,569.632 2</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5468	17.9441	4.7659	0.0489	1.2736	0.0342	1.3078	0.3667	0.0327	0.3994		5,217.665 1	5,217.665 1	0.3389		5,226.136 5
Worker	2.2120	1.3803	15.9362	0.0511	5.7006	0.0408	5.7414	1.5118	0.0375	1.5494		5,092.536 3	5,092.536 3	0.1278		5,095.732 1
<b>Total</b>	<b>2.7588</b>	<b>19.3244</b>	<b>20.7021</b>	<b>0.0999</b>	<b>6.9742</b>	<b>0.0750</b>	<b>7.0492</b>	<b>1.8785</b>	<b>0.0703</b>	<b>1.9487</b>		<b>10,310.20 13</b>	<b>10,310.20 13</b>	<b>0.4667</b>		<b>10,321.86 86</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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<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>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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	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
Vendor	0.4081	13.5329	4.2142	0.0473	1.2736	0.0161	1.2897	0.3667	0.0154	0.3820		5,061.7970	5,061.7970	0.2934		5,069.1314
Worker	2.0862	1.2484	14.6877	0.0492	5.7006	0.0397	5.7403	1.5118	0.0366	1.5484		4,902.6118	4,902.6118	0.1152		4,905.4911
<b>Total</b>	<b>2.4943</b>	<b>14.7814</b>	<b>18.9019</b>	<b>0.0965</b>	<b>6.9742</b>	<b>0.0558</b>	<b>7.0300</b>	<b>1.8785</b>	<b>0.0519</b>	<b>1.9304</b>		<b>9,964.4088</b>	<b>9,964.4088</b>	<b>0.4086</b>		<b>9,974.6225</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	lb/day										lb/day					
Off-Road	0.9587	11.1469	17.7641	0.0269		0.2787	0.2787		0.2628	0.2628	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>0.9587</b>	<b>11.1469</b>	<b>17.7641</b>	<b>0.0269</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2628</b>	<b>0.2628</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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	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
Vendor	0.4081	13.5329	4.2142	0.0473	1.2736	0.0161	1.2897	0.3667	0.0154	0.3820		5,061.7970	5,061.7970	0.2934		5,069.1314
Worker	2.0862	1.2484	14.6877	0.0492	5.7006	0.0397	5.7403	1.5118	0.0366	1.5484		4,902.6118	4,902.6118	0.1152		4,905.4911
<b>Total</b>	<b>2.4943</b>	<b>14.7814</b>	<b>18.9019</b>	<b>0.0965</b>	<b>6.9742</b>	<b>0.0558</b>	<b>7.0300</b>	<b>1.8785</b>	<b>0.0519</b>	<b>1.9304</b>		<b>9,964.4088</b>	<b>9,964.4088</b>	<b>0.4086</b>		<b>9,974.6225</b>

**3.6 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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.6 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	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
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
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
<b>Total</b>	<b>0.0614</b>	<b>0.0367</b>	<b>0.4320</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.1700e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0800e-003</b>	<b>0.0455</b>		<b>144.1945</b>	<b>144.1945</b>	<b>3.3900e-003</b>		<b>144.2792</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	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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.6 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	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
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
Worker	0.0614	0.0367	0.4320	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0455		144.1945	144.1945	3.3900e-003		144.2792
<b>Total</b>	<b>0.0614</b>	<b>0.0367</b>	<b>0.4320</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.1700e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0800e-003</b>	<b>0.0455</b>		<b>144.1945</b>	<b>144.1945</b>	<b>3.3900e-003</b>		<b>144.2792</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.2442					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>143.4358</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4172</b>	<b>0.2497</b>	<b>2.9375</b>	<b>9.8300e-003</b>	<b>1.1401</b>	<b>7.9400e-003</b>	<b>1.1481</b>	<b>0.3024</b>	<b>7.3100e-003</b>	<b>0.3097</b>		<b>980.5224</b>	<b>980.5224</b>	<b>0.0230</b>		<b>981.0982</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	lb/day										lb/day					
Archit. Coating	143.2442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>143.2986</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.4172	0.2497	2.9375	9.8300e-003	1.1401	7.9400e-003	1.1481	0.3024	7.3100e-003	0.3097		980.5224	980.5224	0.0230		981.0982
<b>Total</b>	<b>0.4172</b>	<b>0.2497</b>	<b>2.9375</b>	<b>9.8300e-003</b>	<b>1.1401</b>	<b>7.9400e-003</b>	<b>1.1481</b>	<b>0.3024</b>	<b>7.3100e-003</b>	<b>0.3097</b>		<b>980.5224</b>	<b>980.5224</b>	<b>0.0230</b>		<b>981.0982</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	143.2442					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>143.4249</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>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.3961</b>	<b>0.2275</b>	<b>2.7388</b>	<b>9.5100e-003</b>	<b>1.1401</b>	<b>7.8400e-003</b>	<b>1.1480</b>	<b>0.3024</b>	<b>7.2100e-003</b>	<b>0.3096</b>		<b>948.2150</b>	<b>948.2150</b>	<b>0.0211</b>		<b>948.7422</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	lb/day										lb/day					
Archit. Coating	143.2442					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>143.2986</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3961	0.2275	2.7388	9.5100e-003	1.1401	7.8400e-003	1.1480	0.3024	7.2100e-003	0.3096		948.2150	948.2150	0.0211		948.7422
<b>Total</b>	<b>0.3961</b>	<b>0.2275</b>	<b>2.7388</b>	<b>9.5100e-003</b>	<b>1.1401</b>	<b>7.8400e-003</b>	<b>1.1480</b>	<b>0.3024</b>	<b>7.2100e-003</b>	<b>0.3096</b>		<b>948.2150</b>	<b>948.2150</b>	<b>0.0211</b>		<b>948.7422</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	0.00	0.00	0.00	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
NaturalGas Unmitigated	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	2892.05	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
<b>Total</b>		<b>0.0312</b>	<b>0.2835</b>	<b>0.2382</b>	<b>1.7000e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>		<b>340.2417</b>	<b>340.2417</b>	<b>6.5200e-003</b>	<b>6.2400e-003</b>	<b>342.2636</b>



Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**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					
Industrial Park	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
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
Unrefrigerated Warehouse-No Rail	2.89205	0.0312	0.2835	0.2382	1.7000e-003		0.0216	0.0216		0.0216	0.0216		340.2417	340.2417	6.5200e-003	6.2400e-003	342.2636
<b>Total</b>		<b>0.0312</b>	<b>0.2835</b>	<b>0.2382</b>	<b>1.7000e-003</b>		<b>0.0216</b>	<b>0.0216</b>		<b>0.0216</b>	<b>0.0216</b>		<b>340.2417</b>	<b>340.2417</b>	<b>6.5200e-003</b>	<b>6.2400e-003</b>	<b>342.2636</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
Unmitigated	11.9264	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
<b>Total</b>	<b>11.9264</b>	<b>1.0600e-003</b>	<b>0.1171</b>	<b>1.0000e-005</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>0.2514</b>	<b>0.2514</b>	<b>6.6000e-004</b>		<b>0.2678</b>

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3736					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.5420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0108	1.0600e-003	0.1171	1.0000e-005		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004		0.2514	0.2514	6.6000e-004		0.2678
<b>Total</b>	<b>11.9264</b>	<b>1.0600e-003</b>	<b>0.1171</b>	<b>1.0000e-005</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>4.2000e-004</b>	<b>4.2000e-004</b>		<b>0.2514</b>	<b>0.2514</b>	<b>6.6000e-004</b>		<b>0.2678</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

Oakmont Mission and Ramona Industrial Park - South Coast AQMD Air District, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

## 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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2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	249	9,960	90,885	3,635,400
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	249	9,960	90,885	3,635,400
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	249	90,885
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425

2023 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.37	39.20	3.29	0.25	0.49	0.47	26,246.98	0.02	4.13	27,476.86
0.69	1.23	24.35	0.07	0.03	0.03	7,036.41	0.13	0.13	7,077.25

Subtotal 1.07 40.42 27.65 0.32 0.52 0.50 33,283.39 0.15 4.25 34,554.11

PM10	PM2.5
Paved Road - PM only	
36.89	9.05
7.20	1.77
44.09	10.82

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.31	0.28	2.81	0.00	0.00	0.00	80.70	0.07	0.04	93.38
0.31	1.54	2.81	0.00	0.00	0.00	80.70	0.07	0.04	93.38

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.22	4.11	3.62	0.01	0.00	0.00	766.74	0.01	0.12	802.91
0.22	4.11	3.62	0.01	0.00	0.00	766.74	0.01	0.12	802.91

Subtotal

**TOTAL 1.59 46.07 34.08 0.33 44.62 11.33 34,130.83 0.23 4.41 35,450.40**

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	249	9,960	90,885	3,635,400
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	249	9,960	90,885	3,635,400
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	249	90,885
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425



Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	7.350489433	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.068579745	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0170</b>	<b>5.7059</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.009243022	0	0.179408691	0.11588855	0.210928284	0.460274157	0.556108323				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.035559694	0.062239443				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.03033325	0	0.328873506	0.302917017	0.815237231	1.224239331	1.659338091				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.035351837	0.062079447				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.017765237	0	0.273326358	0.169605226	0.47103425	0.806132373	0.949748386				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.035376402	0.062098356				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.155587816	0	1.623110301	1.273119231	1.950043844	4.220068754	6.271268488				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0289</b>	<b>0.0000</b>	<b>0.2150</b>	<b>0.1451</b>	<b>0.3113</b>	<b>0.5986</b>	<b>0.7393</b>	<b>0.151610</b>	<b>0.193001</b>	<b>1.0161</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day



Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	8.36797269	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.07807282	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0193</b>	<b>6.4957</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	-	-	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.013483542	0	0.196429398	0.11588855	0.210928284	0.460274157	0.556108323				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.035559694	0.062239443				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.044252254	0	0.360074392	0.302917017	0.815237231	1.224239331	1.659338091				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.035351837	0.062079447				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.025917854	0	0.299257588	0.169605226	0.47103425	0.806132373	0.949748386				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.035376402	0.062098356				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.653776648	0	1.766255281	1.273119231	1.950043844	4.220068754	6.271268488				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0383</b>	<b>0.0000</b>	<b>0.2353</b>	<b>0.1451</b>	<b>0.3113</b>	<b>0.5986</b>	<b>0.7393</b>	<b>0.151610</b>	<b>0.193001</b>	<b>1.0364</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	2.016952537	79.63326373	2.358047716
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.98992962	4.505287714	2.122578025
						<b>HHDT and MHDT Composite</b>		<b>1.7850</b>	<b>62.6661</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.031363247	0	0.167355416
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.054832869	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.099969929	0	0.258249196
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.024748566	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.071775813	0	0.267865273
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.037463341	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.985627014	0	0.247608169
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0511</b>	<b>0.0000</b>	<b>0.1923</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.174992017	100.7720376	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.064399562	2.326613421	0
							<b>HHDT and MHDT Composite</b>	<b>0.1500</b>	<b>78.5387</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.757488307	0	1.789735648
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.552873213	0	1.957289269
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	1.099293987	0	2.259341952
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	20.4862467	0	7.966186142
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>1.0145</b>	<b>0.0000</b>	<b>1.9441</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.012155	0.156222976	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008337425	0.007097337	0
						<b>HHDT and MHDT Composite</b>		<b>0.0113</b>	<b>0.1225</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002801559	0	0.000525562
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.003248251	0	0.000626096
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.00342918	0	0.000673376
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002086329	0	0.000583772
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0029</b>	<b>0.0000</b>	<b>0.0006</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.030378068	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.003601205	0	0.012000003	0.130340037	
				<b>HHDT and MHDT Composite</b>				<b>0.0222</b>	<b>0.0243</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.029063926	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.003445419	0	0.003000001	0.055860016	
				<b>HHDT and MHDT Composite</b>				<b>0.0213</b>	<b>0.0233</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	1286.58316	16535.89917	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	882.5002439	751.2394033	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>12971.0279</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	283.105559	0	53.10956815
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	328.2450644	0	63.26882403
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	346.5284839	0	68.04661604
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	210.8294983	0	58.99180553
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>293.0922</b>	<b>0.0000</b>	<b>55.8005</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Summer N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.202232956	2.599213074	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.138716749	0.118084373	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.0389</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00395037	0	0.024436764
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.007835671	0	0.028362076
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006110503	0	0.030808844
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.059645645	0	0.014770842
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0253</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day



**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.341411196	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.003185352	0
<b>HHDT and MHDT Composite</b>								<b>0.0008</b>	<b>0.2650</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002518867	0	0.041761609
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.006958766	0	0.065441229
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.004404422	0	0.059144299
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.321187334	0	0.216071214
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0485</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858

'SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
2.016953	79.63326	2.358048	0.025071	0.029064	0	0.008916	0.026212	0.026205
0.98993	4.505288	2.122578	0.008211	0.003445	0	0.003	0.05586	0.008583
0.031363	0	0.167355	0.00125	0	0.001681	0.002	0.01575	0.001359
0.054833	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.09997	0	0.258249	0.001831	0	0.002448	0.002	0.01575	0.001991
1.024749	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.071776	0	0.267865	0.001322	0	0.001747	0.002	0.01575	0.001438
0.037463	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.207658	0.038205	0.504832	0.001165	0	0.000414	0.002	0.03276	0.001267
2.429341	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.168383	0.038441	0.514392	0.000951	0	0.000312	0.002	0.03822	0.001035
1.948254	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
0.985627	0	0.247608	0.001735	0	0.002759	0.001	0.00504	0.001855
0.093965	0	0.340219	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05038	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.372453	0	0.316602	0.00121	0	0.000322	0.003	0.05586	0.001316
4.113339	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.402273	0.064861	0.302697	0.000821	0	0.00026	0.003	0.05586	0.000893
1.444658	11.46883	2.200785	0.013782	0.003484	0	0.003	0.05586	0.014405
0.381909	0.92602	0.501637	0.000987	0	0.000408	0.002	0.3192	0.001073
5.801337	40.89507	1.044584	0.035536	0.036452	0	0.003	0.3192	0.037143
0.090072	0	0.434008	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.47348	0	0	0.003129	0	0	0.008203	0.030298	0.00327

PM10_IDLE	PM10_STR	PM10_PMI	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0.030378	0	0.035662	0.061161	1286.583	16535.9	0	0.000916	0.341411
0.003601	0	0.012	0.13034	882.5002	751.2394	0	0.000354	0.003185
0	0.001828	0.008	0.03675	283.1056	0	53.10957	0.002519	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	328.2451	0	63.26882	0.006959	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	346.5285	0	68.04662	0.004404	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.7036	121.0254	18.75448	0.007885	0.122033
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3957	139.7034	21.30092	0.004501	0.124627
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	210.8295	0	58.99181	0.321187	0
0	0.002005	0.008	0.03675	427.971	0	85.60157	0.005768	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.932	0	25.62504	0.013476	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000283	0.012	0.13034	1656.612	376.0152	25.79971	0.011583	0.202795
0.003641	0	0.012	0.13034	1123.705	2627.498	0	0.000522	0.042801
0	0.000444	0.008	0.7448	861.1788	2585.835	44.0491	0.011849	2.454396
0.038101	0	0.012	0.7448	1195.349	3693.852	0	0.004695	0.012753
0	0.000562	0.009076	0.100248	1207.327	0	46.34325	0.003191	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0

CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
0	0.202233	2.599213	0	0.019713	7.350489	0	0	0
0	0.138717	0.118084	0	0.007631	0.06858	0	0	0
0.041762	0.00395	0	0.024437	0.009243	0	0.179409	0.115889	0.210928
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.065441	0.007836	0	0.028362	0.030333	0	0.328874	0.302917	0.815237
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.059144	0.006111	0	0.030809	0.017765	0	0.273326	0.169605	0.471034
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.025291	0.012532	0.003176	0.040232	0.038596	0.437419	0.126086	0.180702	1.032955
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.024	0.011329	0.003202	0.040855	0.019688	0.440756	0.11743	0.14739	0.767394
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.216071	0.059646	0	0.014771	2.155588	0	1.62311	1.273119	1.950044
0.073328	0.007708	0	0.034647	0.023868	0	0.357509	0.197616	0.518065
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.03087	0.023642	0	0.034915	0.058619	0	0.126838	0.114613	2.201204
0	0.148356	0	0	0.079676	0	0	0	0
0.028782	0.020601	0.005873	0.025477	0.054869	0.743285	0.146737	0.036692	0.385123
0	0.176631	0.413006	0	0.011231	0.921502	0	0	0
0.050609	0.022353	0.090986	0.048236	0.058299	10.63405	0.289477	0.081171	0.415368
0	0.187892	0.580622	0	0.101084	0.274567	0	0	0
0.041874	0.01026	0	0.052507	0.009522	0	0.162877	0.030375	0.093159
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI
0	0	0.022441	8.367973	0	0	0	0	0
0	0	0.008687	0.078073	0	0	0	0	0
0.460274	0.556108	0.013484	0	0.196429	0.115889	0.210928	0.460274	0.556108
0	0	0.013645	0	0	0	0	0	0
0.03556	0.062239	0	0	0	0.004888	0	0.03556	0.062239
1.224239	1.659338	0.044252	0	0.360074	0.302917	0.815237	1.224239	1.659338
0	0	0.221784	0	0	0	0	0	0
0.035352	0.062079	0	0	0	0.004888	0	0.035352	0.062079
0.806132	0.949748	0.025918	0	0.299258	0.169605	0.471034	0.806132	0.949748
0	0	0.016231	0	0	0	0	0	0
0.035376	0.062098	0	0	0	0.004888	0	0.035376	0.062098
0.089508	0.158747	0.05632	0.638281	0.138048	0.180702	1.032955	0.089508	0.158747
0	0	0.101557	0.124954	0	0	0	0	0
0.070861	0.12006	0.028728	0.64315	0.128571	0.14739	0.767394	0.070861	0.12006
0	0	0.087288	0.124954	0	0	0	0	0
4.220069	6.271268	2.653777	0	1.766255	1.273119	1.950044	4.220069	6.271268
0.974596	1.090744	0.034765	0	0.391423	0.197616	0.518065	0.974596	1.090744
0	0	0.012613	0	0	0	0	0	0
0.035292	0.062033	0	0	0	0.004888	0	0.035292	0.062033
0.131632	0.310615	0.085537	0	0.138871	0.114613	2.201204	0.131632	0.310615
0	0	0.090706	0	0	0	0	0	0
0.063878	0.131201	0.080064	1.0846	0.160659	0.036692	0.385123	0.063878	0.131201
0	0	0.012786	1.04906	0	0	0	0	0
0.038974	0.073738	0.085069	15.51719	0.316941	0.081171	0.415368	0.038974	0.073738
0	0	0.115076	0.312573	0	0	0	0	0
0.017071	0.024449	0.013894	0	0.17833	0.030375	0.093159	0.017071	0.024449
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

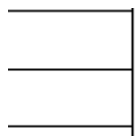
CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
0.174992	100.772	0	0.012155	0.156223	0
0.0644	2.326613	0	0.008337	0.007097	0
0.757488	0	1.789736	0.002802	0	0.000526
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.552873	0	1.957289	0.003248	0	0.000626
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
1.099294	0	2.259342	0.003429	0	0.000673
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
1.021401	3.746224	1.669266	0.007904	0.001198	0.000186
0.608005	0.909745	0	0.004519	0.00128	0
0.516357	3.761574	1.55412	0.009068	0.001382	0.000211
0.512323	0.909745	0	0.004911	0.002052	0
20.48625	0	7.966186	0.002086	0	0.000584
1.284764	0	2.68249	0.004235	0	0.000847
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.752444	0	2.691054	0.016684	0	0.000254
0.344783	0	0	0.008923	0	0
1.349547	5.756642	2.975851	0.016394	0.003721	0.000255
0.103855	13.74174	0	0.010616	0.024823	0
1.300616	82.19556	5.772454	0.008522	0.025589	0.000436
0.300935	6.449279	0	0.011293	0.034898	0
0.168121	0	3.285226	0.011947	0	0.000459
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0



$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	249	90,885
Employees/Customers	Composite	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425

2023 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.37	41.01	3.29	0.25	0.49	0.47	26,246.98	0.02	4.13	27,476.86
0.66	1.30	19.51	0.06	0.03	0.03	6,348.22	0.12	0.13	6,390.01
Subtotal									
1.03	42.31	22.80	0.31	0.52	0.50	32,595.20	0.14	4.26	33,866.87

PM10	PM2.5
Paved Road - PM only	
36.89	9.05
7.20	1.77
Subtotal	
44.09	10.82

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.37	0.29	3.31	0.00	0.00	0.00	81.68	0.08	0.04	95.13
Subtotal									
0.37	1.56	3.31	0.00	0.00	0.00	81.68	0.08	0.04	95.13

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.19	4.47	3.76	0.01	0.00	0.00	784.35	0.01	0.12	821.31
Subtotal									
0.19	4.47	3.76	0.01	0.00	0.00	784.35	0.01	0.12	821.31
TOTAL									
1.58	48.34	29.87	0.32	44.62	11.33	33,461.24	0.23	4.42	34,783.31

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	249	90,885
Employees/Customers	Composite	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425



Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	6.373724268	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.061927634	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0170</b>	<b>4.9482</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.007921213	0	0.211611905	0.108937111	0.240289221	0.204997904	0.27223789	0	0	0	0
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.004750887	0.02189408	0	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.026212023	0	0.389602521	0.281197384	0.956543697	0.529711406	0.836502499	0	0	0	0
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.004771171	0.021871518	0	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.015279981	0	0.323057554	0.158378106	0.549237153	0.360771773	0.45898209	0	0	0	0
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.004768773	0.021874185	0	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.175374415	0	1.823025568	1.106176081	2.234300385	1.415071738	3.402902263	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0273</b>	<b>0.0000</b>	<b>0.2531</b>	<b>0.1353</b>	<b>0.3591</b>	<b>0.2622</b>	<b>0.3647</b>	<b>0.064104</b>	<b>0.096855</b>	<b>0.9085</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	7.255999903	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.070499897	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0193</b>	<b>5.6332</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.011555618	0	0.231687758	0.108937111	0.240289221	0.204997904	0.27223789	0	0	0	0
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.004750887	0.02189408	0	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.038240687	0	0.426564885	0.281197384	0.956543697	0.529711406	0.836502499	0	0	0	0
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.004771171	0.021871518	0	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.022292444	0	0.353706916	0.158378106	0.549237153	0.360771773	0.45898209	0	0	0	0
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.004768773	0.021874185	0	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.676529475	0	1.983766978	1.106176081	2.234300385	1.415071738	3.402902263	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0360</b>	<b>0.0000</b>	<b>0.2771</b>	<b>0.1353</b>	<b>0.3591</b>	<b>0.2622</b>	<b>0.3647</b>	<b>0.064104</b>	<b>0.096855</b>	<b>0.9324</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Winter NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	2.110852682	89.12408279	2.358047716
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	1.033954425	4.765382917	2.122578025
							<b>HHDT and MHDT Composite</b>	<b>1.8676</b>	<b>70.0722</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.032682406	0	0.177209761
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.057419122	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.105501891	0	0.27376048
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.072083124	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.075212585	0	0.283678877
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.039204158	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	1.120070443	0	0.26220657
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0542</b>	<b>0.0000</b>	<b>0.2037</b>



**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.174992017	104.011174	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.064399562	2.453094704	0
<b>HHDT and MHDT Composite</b>								<b>0.1500</b>	<b>81.0749</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.582849669	0	2.116678649
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.219609302	0	2.323323033
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.852969318	0	2.685365341
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	19.43969891	0	8.455655535
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.8125</b>	<b>0.0000</b>	<b>2.2893</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX	SO2_IDLEX	SO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.012155	0.160943891	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008337425	0.007199608	0
							<b>HHDT and MHDT Composite</b>	<b>0.0113</b>	<b>0.1262</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002508594	0	0.00053176
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.002948065	0	0.000633855
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003137935	0	0.000681711
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002070584	0	0.000598025
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0026</b>	<b>0.0000</b>	<b>0.0006</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.040062049	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.005093908	0	0.012000003	0.130340037	
				<b>HHDT and MHDT Composite</b>				<b>0.0222</b>	<b>0.0322</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.038328982	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.004873547	0	0.003000001	0.055860016	
				<b>HHDT and MHDT Composite</b>				<b>0.0213</b>	<b>0.0308</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	1286.58316	17035.59883	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	882.5002439	762.0645938	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>13360.3182</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	253.5005578	0	53.7358888
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	297.9103621	0	64.05285424
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	317.0973222	0	68.8888202
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	209.238411	0	60.43210255
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>264.4268</b>	<b>0.0000</b>	<b>56.4801</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Winter N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.202232956	2.677758901	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.138716749	0.119785942	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.1001</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.004051756	0	0.025508211
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.008099841	0	0.029597896
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006290081	0	0.032141715
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.06526829	0	0.015076073
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0054</b>	<b>0.0000</b>	<b>0.0264</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.296042984	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.002876378	0
<b>HHDT and MHDT Composite</b>								<b>0.0008</b>	<b>0.2298</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002141354	0	0.048767568
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00598937	0	0.07696557
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.00376297	0	0.069231391
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.322937288	0	0.241622575
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0566</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430



EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	GAS	7.80192	902.9373	156.1008
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	NG	1180.525	48153.57	4604.047
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	GAS	2406.141	152847.6	48142.06
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858

'SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
3.988944	0	0.636898	0.00161	0	0.001152	0.005	0.02646	0.001751
2.110853	89.12408	2.358048	0.025071	0.038329	0	0.008916	0.026212	0.026205
3.174667	24.31563	0	0.005485	0.045923	0	0.009	0.02646	0.005733
0.032682	0	0.17721	0.00125	0	0.001681	0.002	0.01575	0.001359
0.057419	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.105502	0	0.27376	0.001831	0	0.002448	0.002	0.01575	0.001991
1.072083	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.075213	0	0.283679	0.001322	0	0.001747	0.002	0.01575	0.001438
0.039204	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.231511	0.038205	0.521758	0.001165	0	0.000414	0.002	0.03276	0.001267
2.537162	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.187707	0.038441	0.531166	0.000951	0	0.000312	0.002	0.03822	0.001035
2.034532	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
1.12007	0	0.262207	0.001735	0	0.002759	0.001	0.00504	0.001855
0.098455	0	0.360433	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05276	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.417974	0	0.328568	0.00121	0	0.000322	0.003	0.05586	0.001316
4.305145	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.346313	0.084877	0.353957	0.000933	0	0.000413	0.003	0.05586	0.001015
1.033954	4.765383	2.122578	0.008211	0.004874	0	0.003	0.05586	0.008583
0.451194	0.064861	0.313929	0.000821	0	0.00026	0.003	0.05586	0.000893
1.509539	12.90837	2.200785	0.013782	0.004524	0	0.003	0.05586	0.014405
0.431763	0.92602	0.541582	0.000987	0	0.000408	0.002	0.3192	0.001073
6.086169	39.06903	1.044584	0.035536	0.052334	0	0.003	0.3192	0.037143
0.101001	0	0.455166	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.473485	0	0	0.003129	0	0	0.008203	0.030298	0.00327

PM10_IDLE	PM10_STR	PM10_PMI	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0	0.001253	0.02	0.06174	1951.59	0	46.61148	0.114998	0
0.040062	0	0.035662	0.061161	1286.583	17035.6	0	0.000916	0.296043
0.047999	0	0.036	0.06174	3500.822	4163.77	0	5.042156	1.220664
0	0.001828	0.008	0.03675	253.5006	0	53.73589	0.002141	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	297.9104	0	64.05285	0.005989	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	317.0973	0	68.88882	0.003763	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.6508	121.0254	18.90754	0.007639	0.12171
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3743	139.7034	21.44138	0.00439	0.124289
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	209.2384	0	60.4321	0.322937	0
0	0.002005	0.008	0.03675	396.2745	0	86.63674	0.004908	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.836	0	26.00486	0.013097	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000449	0.012	0.13034	1628.203	505.9951	38.0085	0.009751	0.293609
0.005094	0	0.012	0.13034	882.5002	762.0646	0	0.000354	0.002876
0	0.000283	0.012	0.13034	1656.551	376.0152	26.2146	0.011279	0.202168
0.004729	0	0.012	0.13034	1123.705	2712.93	0	0.000522	0.037035
0	0.000444	0.008	0.7448	861.1129	2585.835	48.44537	0.011513	2.45033
0.0547	0	0.012	0.7448	1195.349	3477.718	0	0.004695	0.012778
0	0.000562	0.009076	0.100248	1207.32	0	47.38184	0.003102	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0

CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
0.000346	0.141706	0	0.018214	0.626082	0	0.001795	0.232895	1.04305
0	0.202233	2.677759	0	0.019713	6.373724	0	0	0
0	0.713665	0.848812	0	0.348147	0.068909	0	0	0
0.048768	0.004052	0	0.025508	0.007921	0	0.211612	0.108937	0.240289
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.076966	0.0081	0	0.029598	0.026212	0	0.389603	0.281197	0.956544
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.069231	0.00629	0	0.032142	0.01528	0	0.323058	0.158378	0.549237
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.026269	0.013595	0.003126	0.040909	0.037259	0.437419	0.13134	0.177416	1.101122
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.024915	0.012366	0.003146	0.04146	0.019203	0.440756	0.122262	0.142325	0.821469
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.241623	0.065268	0	0.015076	2.175374	0	1.823026	1.106176	2.2343
0.085883	0.007937	0	0.036159	0.020401	0	0.422436	0.185997	0.599114
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.032675	0.025611	0	0.035052	0.056595	0	0.133953	0.117672	2.315628
0	0.148356	0	0	0.079676	0	0	0	0
0.038397	0.018822	0.007741	0.029813	0.046235	1.087523	0.198738	0.094581	0.50697
0	0.138717	0.119786	0	0.007631	0.061928	0	0	0
0.030294	0.022437	0.005741	0.025823	0.053394	0.743285	0.154837	0.03517	0.4077
0	0.176631	0.426435	0	0.011231	0.797362	0	0	0
0.062581	0.024455	0.08824	0.050513	0.056642	10.63405	0.3583	0.079551	0.550483
0	0.187892	0.546649	0	0.101084	0.2751	0	0	0
0.046432	0.011135	0	0.053366	0.009279	0	0.180981	0.027357	0.109838
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

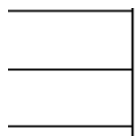
ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIUR
0.073415	0.138563	0.913577	0	0.001966	0.232895	1.04305	0.073415	0.138563
0	0	0.022441	7.256	0	0	0	0	0
0	0	5.460478	1.304419	0	0	0	0	0
0.204998	0.272238	0.011556	0	0.231688	0.108937	0.240289	0.204998	0.272238
0	0	0.013645	0	0	0	0	0	0
0.004751	0.021894	0	0	0	0.004888	0	0.004751	0.021894
0.529711	0.836502	0.038241	0	0.426565	0.281197	0.956544	0.529711	0.836502
0	0	0.221784	0	0	0	0	0	0
0.004771	0.021872	0	0	0	0.004888	0	0.004771	0.021872
0.360772	0.458982	0.022292	0	0.353707	0.158378	0.549237	0.360772	0.458982
0	0	0.016231	0	0	0	0	0	0
0.004769	0.021874	0	0	0	0.004888	0	0.004769	0.021874
0.038782	0.08817	0.054368	0.638281	0.143801	0.177416	1.101122	0.038782	0.08817
0	0	0.101557	0.124954	0	0	0	0	0
0.031578	0.064406	0.02802	0.64315	0.133861	0.142325	0.821469	0.031578	0.064406
0	0	0.087288	0.124954	0	0	0	0	0
1.415072	3.402902	2.676529	0	1.983767	1.106176	2.2343	1.415072	3.402902
0.445666	0.518423	0.029719	0	0.46251	0.185997	0.599114	0.445666	0.518423
0	0	0.012613	0	0	0	0	0	0
0.004777	0.021865	0	0	0	0.004888	0	0.004777	0.021865
0.056002	0.182409	0.082583	0	0.146662	0.117672	2.315628	0.056002	0.182409
0	0	0.090706	0	0	0	0	0	0
0.025678	0.05453	0.067466	1.586911	0.217593	0.094581	0.50697	0.025678	0.05453
0	0	0.008687	0.0705	0	0	0	0	0
0.028009	0.072173	0.077912	1.0846	0.169527	0.03517	0.4077	0.028009	0.072173
0	0	0.012786	0.907736	0	0	0	0	0
0.020232	0.038663	0.082651	15.51719	0.392293	0.079551	0.550483	0.020232	0.038663
0	0	0.115076	0.313181	0	0	0	0	0
0.007482	0.013596	0.013539	0	0.198151	0.027357	0.109838	0.007482	0.013596
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
38.9408	0	5.147834	0.019313	0	0.000461
0.174992	104.0112	0	0.012155	0.160944	0
13.33095	20.8002	0	0	0	0
0.58285	0	2.116679	0.002509	0	0.000532
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.219609	0	2.323323	0.002948	0	0.000634
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
0.852969	0	2.685365	0.003138	0	0.000682
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
0.991686	3.746224	1.754704	0.007903	0.001198	0.000187
0.608005	0.909745	0	0.004519	0.00128	0
0.504137	3.761574	1.632502	0.009068	0.001382	0.000212
0.512323	0.909745	0	0.004911	0.002052	0
19.4397	0	8.455656	0.002071	0	0.000598
0.997632	0	3.198076	0.003921	0	0.000857
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.697535	0	2.915607	0.016683	0	0.000257
0.344783	0	0	0.008923	0	0
1.16374	19.84895	4.279496	0.016112	0.005007	0.000376
0.0644	2.453095	0	0.008337	0.0072	0
1.315104	5.756642	3.220442	0.016393	0.003721	0.000259
0.103855	14.17312	0	0.010616	0.02563	0
1.263552	82.19556	8.400249	0.008521	0.025589	0.000479
0.300935	7.492246	0	0.011293	0.032856	0
0.163964	0	3.902118	0.011947	0	0.000469
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip





2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	249	90,885
Employees/Customers	Composite	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	249	9,960	90,885	3,635,400
Employees/Customers	Composite	16.6	656	10,890	239,440	3,974,704

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	249	90,885
Employees/Customers	Composite	656	239,440

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,245	454,425

2023 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual									
(Tons/Year)					(Metric Tons/Year)				

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.07	7.60	0.60	0.05	0.09	0.09	4,345.48	0.00	0.68	4,549.10
0.12	0.25	3.75	0.01	0.01	0.01	1,072.75	0.02	0.02	1,079.94
0.19	7.85	4.35	0.06	0.10	0.09	5,418.22	0.02	0.71	5,629.04

PM10	PM2.5
Paved Road - PM only	
6.73	1.65
1.31	0.32
8.05	1.97

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.07	0.05	0.61	0.00	0.00	0.00	13.54	0.01	0.01	15.77
0.07	0.29	0.61	0.00	0.00	0.00	13.54	0.01	0.01	15.77

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.04	0.78	0.67	0.00	0.00	0.00	128.17	0.00	0.02	134.21
0.04	0.78	0.67	0.00	0.00	0.00	128.17	0.00	0.02	134.21

Subtotal

<b>TOTAL</b>	<b>0.30</b>	<b>8.91</b>	<b>5.64</b>	<b>0.06</b>	<b>8.14</b>	<b>2.07</b>	<b>5,707.13</b>	<b>0.04</b>	<b>0.73</b>	<b>5,779.02</b>
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Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	6.940248063	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.065785858	0	0	0	0	0	0	0	0	0
					<b>HHDT and MHDT Composite</b>			<b>0.0170</b>	<b>5.3877</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	-	-	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.008133624	0	0.213065745	0.099643924	0.212348769	0.21888054	0.273535036				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.010081669	0.028068326				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.02688652	0	0.392815711	0.245206771	0.817457327	0.568919552	0.806945255				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.010068065	0.028072248				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.015682978	0	0.325603894	0.143440196	0.473052184	0.384687388	0.465645179				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.010069673	0.028071785				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.21125662	0	1.893673863	0.828512979	1.957829386	1.587946267	2.890576071				
					<b>LDA, LDT1, LDT2, and MCY Composite</b>			<b>0.0279</b>	<b>0.0000</b>	<b>0.2554</b>	<b>0.1212</b>	<b>0.3129</b>	<b>0.2807</b>	<b>0.3612</b>	<b>0.069024</b>	<b>0.093364</b>	<b>0.8520</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	7.90094412	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.074892192	0	0	0	0	0	0	0	0	0
					<b>HHDT and MHDT Composite</b>			<b>0.0193</b>	<b>6.1335</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.011865323	0	0.2332795	0.099643924	0.212348769	0.21888054	0.273535036				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.010081669	0.028068326				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.039224273	0	0.430082874	0.245206771	0.817457327	0.568919552	0.806945255				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.010068065	0.028072248				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.022880177	0	0.356494813	0.143440196	0.473052184	0.384687388	0.465645179				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.010069673	0.028071785				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.719720453	0	2.060593909	0.828512979	1.957829386	1.587946267	2.890576071				
					<b>LDA, LDT1, LDT2, and MCY Composite</b>			<b>0.0367</b>	<b>0.0000</b>	<b>0.2796</b>	<b>0.1212</b>	<b>0.3129</b>	<b>0.2807</b>	<b>0.3612</b>	<b>0.069024</b>	<b>0.093364</b>	<b>0.8761</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX	NOx_IDLEX	NOx_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg;	Aggregated	29,526.79	4,258,567.77	345,800.83	2.142049754	83.61940774	2.358047716
SAN BERNARDINO	2023	MHDT	Aggreg;	Aggregated	17,836.70	1,242,349.30	176,235.41	1.051143665	4.614527699	2.122578025
							<b>HHDT and MHDT Composite</b>	<b>1.8957</b>	<b>65.7766</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.034585865	0	0.179683693
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.058388333	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.111393587	0	0.277495558
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.09011564	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.079565955	0	0.287705058
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.039865435	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	1.161821823	0	0.265681615
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0571</b>	<b>0.0000</b>	<b>0.2065</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	0.174992017	102.1324749	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	0.064399562	2.379735559	0
						<b>HHDT and MHDT Composite</b>		<b>0.1500</b>	<b>79.6039</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.615736095	0	2.151494387
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.283433273	0	2.362940389
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.899945239	0	2.728729758
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	20.35312444	0	8.805393528
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.8563</b>	<b>0.0000</b>	<b>2.3298</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Annual SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg;	Aggregated	29,526.79	4,258,567.77	345,800.83	0.012155	0.15820576	0
SAN BERNARDINO	2023	MHDT	Aggreg;	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008337425	0.007140291	0
						<b>HHDT and MHDT Composite</b>		<b>0.0113</b>	<b>0.1241</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002564219	0	0.000532355
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.003005578	0	0.000634583
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003193735	0	0.000682475
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002086182	0	0.000605832
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0027</b>	<b>0.0000</b>	<b>0.0006</b>



Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	Aggreg.	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.03444534	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	Aggreg.	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.00422814	0	0.012000003	0.130340037	
							<b>HHDT and MHDT Composite</b>	<b>0.0222</b>	<b>0.0276</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.03295525	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.004045233	0	0.003000001	0.055860016	
					<b>HHDT and MHDT Composite</b>			<b>0.0213</b>	<b>0.0264</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
					<b>LDA, LDT1, LDT2, and MCY Composite</b>			<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	1286.58316	16745.77303	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	882.5002439	755.7859833	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>13134.5298</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	259.1216564	0	53.79595416
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	303.7222916	0	64.12643577
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	322.7360954	0	68.96610291
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	210.8146979	0	61.22108436
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>269.8931</b>	<b>0.0000</b>	<b>56.5535</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Annual N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	0.202232956	2.632202321	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	0.138716749	0.118799032	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.0646</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.004237184	0	0.025565289
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.008447837	0	0.02964783
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006573159	0	0.032220707
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.066974591	0	0.015120897
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0265</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.322356547	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.003055583	0
						<b>HHDT and MHDT Composite</b>		<b>0.0008</b>	<b>0.2502</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002194977	0	0.049012381
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.006130738	0	0.077428346
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003854772	0	0.069631951
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.327288899	0	0.25029488
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0053</b>	<b>0.0000</b>	<b>0.0570</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTS

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	GAS	7.80192	902.9373	156.1008
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	NG	1180.525	48153.57	4604.047
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	GAS	2406.141	152847.6	48142.06
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858

K and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
4.131843	0	0.645749	0.00161	0	0.001152	0.005	0.02646	0.001751
2.14205	83.61941	2.358048	0.025071	0.032955	0	0.008916	0.026212	0.026205
3.218884	23.85602	0	0.005485	0.038047	0	0.009	0.02646	0.005733
0.034586	0	0.179684	0.00125	0	0.001681	0.002	0.01575	0.001359
0.058388	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.111394	0	0.277496	0.001831	0	0.002448	0.002	0.01575	0.001991
1.090116	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.079566	0	0.287705	0.001322	0	0.001747	0.002	0.01575	0.001438
0.039865	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.239617	0.038205	0.530552	0.001165	0	0.000414	0.002	0.03276	0.001267
2.576256	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.194343	0.038441	0.539859	0.000951	0	0.000312	0.002	0.03822	0.001035
2.065839	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
1.161822	0	0.265682	0.001735	0	0.002759	0.001	0.00504	0.001855
0.104206	0	0.365451	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05365	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.433441	0	0.333657	0.00121	0	0.000322	0.003	0.05586	0.001316
4.376658	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.358891	0.089292	0.359139	0.000933	0	0.000413	0.003	0.05586	0.001015
1.051144	4.614528	2.122578	0.008211	0.004045	0	0.003	0.05586	0.008583
0.467975	0.064861	0.318598	0.000821	0	0.00026	0.003	0.05586	0.000893
1.533164	12.07344	2.200785	0.013782	0.003921	0	0.003	0.05586	0.014405
0.442084	0.92602	0.539072	0.000987	0	0.000408	0.002	0.3192	0.001073
6.178777	40.12813	1.044584	0.035536	0.043123	0	0.003	0.3192	0.037143
0.104577	0	0.460136	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.473486	0	0	0.003129	0	0	0.008203	0.030298	0.00327



PM10_IDLE	PM10_STRI	PM10_PMT	PM10_PME	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0	0.001253	0.02	0.06174	1951.369	0	46.71819	0.114668	0
0.034445	0	0.035662	0.061161	1286.583	16745.77	0	0.000916	0.322357
0.039767	0	0.036	0.06174	3500.822	4194.697	0	5.042156	1.265272
0	0.001828	0.008	0.03675	259.1217	0	53.79595	0.002195	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	303.7223	0	64.12644	0.006131	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	322.7361	0	68.9661	0.003855	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.6448	121.0254	18.95496	0.007611	0.121628
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3717	139.7034	21.48001	0.004375	0.124211
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	210.8147	0	61.22108	0.327289	0
0	0.002005	0.008	0.03675	402.3487	0	86.72936	0.005038	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.826	0	26.04796	0.01306	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000449	0.012	0.13034	1628.198	537.671	38.12586	0.009729	0.271401
0.004228	0	0.012	0.13034	882.5002	755.786	0	0.000354	0.003056
0	0.000283	0.012	0.13034	1656.544	376.0152	26.25501	0.01124	0.202121
0.004098	0	0.012	0.13034	1123.705	2663.38	0	0.000522	0.04038
0	0.000444	0.008	0.7448	861.1164	2585.835	48.02782	0.011528	2.45088
0.045073	0	0.012	0.7448	1195.349	3603.076	0	0.004695	0.012763
0	0.000562	0.009076	0.100248	1207.319	0	47.53987	0.003092	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0

CH4_STRE	N2O_RUNE	N2O_IDLE	N2O_STRE	ROG_RUNE	ROG_IDLE	ROG_STRE	ROG_HOTS	ROG_RUNI
0.00035	0.145243	0	0.018376	0.623892	0	0.001813	0.197516	0.99633
0	0.202233	2.632202	0	0.019713	6.940248	0	0	0
0	0.713665	0.855116	0	0.348147	0.065581	0	0	0
0.049012	0.004237	0	0.025565	0.008134	0	0.213066	0.099644	0.212349
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.077428	0.008448	0	0.029648	0.026887	0	0.392816	0.245207	0.817457
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.069632	0.006573	0	0.032221	0.015683	0	0.325604	0.14344	0.473052
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.026515	0.013937	0.003106	0.041331	0.03712	0.437419	0.132696	0.150311	1.022408
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.025128	0.012705	0.003125	0.041854	0.019141	0.440756	0.123416	0.124331	0.7597
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.250295	0.066975	0	0.015121	2.211257	0	1.893674	0.828513	1.957829
0.086364	0.008294	0	0.03623	0.021004	0	0.425665	0.171826	0.52003
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.032863	0.026265	0	0.035219	0.056405	0	0.134693	0.095695	2.195494
0	0.148356	0	0	0.079676	0	0	0	0
0.038845	0.019329	0.00808	0.030016	0.046097	1.003255	0.200716	0.085128	0.464405
0	0.138717	0.118799	0	0.007631	0.065786	0	0	0
0.030437	0.023047	0.005697	0.026007	0.053209	0.743285	0.15559	0.032551	0.382421
0	0.176631	0.418646	0	0.011231	0.869363	0	0	0
0.061133	0.024908	0.087802	0.050052	0.056708	10.63405	0.34974	0.07745	0.45397
0	0.187892	0.566353	0	0.101084	0.274791	0	0	0
0.046954	0.011416	0	0.053426	0.009248	0	0.183368	0.023975	0.095148
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

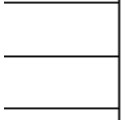
ROG_RESTI	ROG_DIURI	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI
0.072338	0.127065	0.910382	0	0.001985	0.197516	0.99633	0.072338	0.127065
0	0	0.022441	7.900944	0	0	0	0	0
0	0	5.460478	1.345426	0	0	0	0	0
0.218881	0.273535	0.011865	0	0.233279	0.099644	0.212349	0.218881	0.273535
0	0	0.013645	0	0	0	0	0	0
0.010082	0.028068	0	0	0	0.004888	0	0.010082	0.028068
0.56892	0.806945	0.039224	0	0.430083	0.245207	0.817457	0.56892	0.806945
0	0	0.221784	0	0	0	0	0	0
0.010068	0.028072	0	0	0	0.004888	0	0.010068	0.028072
0.384687	0.465645	0.02288	0	0.356495	0.14344	0.473052	0.384687	0.465645
0	0	0.016231	0	0	0	0	0	0
0.01007	0.028072	0	0	0	0.004888	0	0.01007	0.028072
0.039357	0.080292	0.054165	0.638281	0.145285	0.150311	1.022408	0.039357	0.080292
0	0	0.101557	0.124954	0	0	0	0	0
0.032435	0.061945	0.027931	0.64315	0.135125	0.124331	0.7597	0.032435	0.061945
0	0	0.087288	0.124954	0	0	0	0	0
1.587946	2.890576	2.71972	0	2.060594	0.828513	1.957829	1.587946	2.890576
0.473102	0.539455	0.030595	0	0.466045	0.171826	0.52003	0.473102	0.539455
0	0	0.012613	0	0	0	0	0	0
0.010064	0.028073	0	0	0	0.004888	0	0.010064	0.028073
0.055125	0.156878	0.082306	0	0.147472	0.095695	2.195494	0.055125	0.156878
0	0	0.090706	0	0	0	0	0	0
0.026199	0.05082	0.067265	1.463947	0.219759	0.085128	0.464405	0.026199	0.05082
0	0	0.008687	0.074892	0	0	0	0	0
0.027845	0.067393	0.077642	1.0846	0.170351	0.032551	0.382421	0.027845	0.067393
0	0	0.012786	0.989704	0	0	0	0	0
0.020183	0.040849	0.082749	15.51719	0.382921	0.07745	0.45397	0.020183	0.040849
0	0	0.115076	0.312829	0	0	0	0	0
0.007537	0.012884	0.013494	0	0.200764	0.023975	0.095148	0.007537	0.012884
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
38.80748	0	5.215119	0.01931	0	0.000462
0.174992	102.1325	0	0.012155	0.158206	0
13.33095	19.61812	0	0	0	0
0.615736	0	2.151494	0.002564	0	0.000532
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.283433	0	2.36294	0.003006	0	0.000635
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
0.899945	0	2.72873	0.003194	0	0.000682
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
0.988278	3.746224	1.781748	0.007903	0.001198	0.000188
0.608005	0.909745	0	0.004519	0.00128	0
0.502682	3.761574	1.654426	0.009068	0.001382	0.000213
0.512323	0.909745	0	0.004911	0.002052	0
20.35312	0	8.805394	0.002086	0	0.000606
1.053574	0	3.249666	0.003982	0	0.000858
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.69178	0	2.941233	0.016683	0	0.000258
0.344783	0	0	0.008923	0	0
1.160603	14.36279	4.349347	0.016112	0.005321	0.000377
0.0644	2.379736	0	0.008337	0.00714	0
1.310916	5.756642	3.244345	0.016393	0.003721	0.00026
0.103855	13.92292	0	0.010616	0.025162	0
1.265574	82.19556	8.154952	0.008521	0.025589	0.000475
0.300935	6.887325	0	0.011293	0.03404	0
0.163525	0	3.996761	0.011947	0	0.00047
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity	Electric Motors	Drive Motor Capacity		Facility Operation	Vehicle Operation				Electric Energy Consumption per Unit		Total Energy Consumption		
	(lbs)		(hp)	(kW)	(hrs/day)	Load Factor <sup>4</sup>	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)	Units	(kWhr/day)	(kWhr/yr)
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity		0.7	8	0.2	7	52	582.4	1.12	407.68		0.00	0.00
		Lift Motor Capacity		0.8	8	0.05	7	52	145.6	0.32	116.48		0.00	0.00
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	47	827.20	301,100.80
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		188.00	68,432.00
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	24	18	8	0.2	7	52	582.4	28.80	10,483.20	18	518.40	188,697.60
		Lift Motor Capacity	27	20	8	0.05	7	52	145.6	8.00	2,912.00		144.00	52,416.00
Total												1,677.60	610,646.40	

<sup>1</sup> Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

[https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw\\_sn8BRBrEiwAnUGlDsnUx19lvgquuJTz2DOxS1UqkSAlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD\\_BwE](https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGlDsnUx19lvgquuJTz2DOxS1UqkSAlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD_BwE)

<sup>2</sup> Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

<sup>3</sup> Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2epc7000-2ep11000-english.pdf>

<sup>4</sup> Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor  
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>
					(lb/MWhr)				(Metric TPY)			
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
		Lift Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity	827.2	301,100.80	531.44	0.029	0.00617	534	72.58	0.00	0.00	72.93
		Lift Motor Capacity	188	68,432.00	531.44	0.029	0.00617	534	16.50	0.00	0.00	16.58
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	518.4	188,697.60	531.44	0.029	0.00617	534	45.49	0.00	0.00	45.71
		Lift Motor Capacity	144	52,416.00	531.44	0.029	0.00617	534	12.64	0.00	0.00	12.70
Total								147.20	0.01	0.00	147.91	

<sup>1</sup> Based on SCE 2019 Corporate Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>

<sup>2</sup> Based on CalEEMod default values for the Utility

### Quantification of Commercial EV Charging Station Benefit

SCE Electricity Emission Factor <sup>1</sup>	0.24	MT CO <sub>2</sub> e/MWh
Fuel Economy of Electric Vehicle <sup>2</sup>	0.4	kWh/mile
Gasoline/Diesel CO <sub>2</sub> e Emission while Running <sup>3</sup>	316	g/mile
Annual VMT per Parking Spot <sup>4</sup>	52,000	miles/charging station/year
Number of EV Parking Spots Provided by Project <sup>5</sup>	71	
Annual VMT All Stations (Based on Charge)	3,692,000	miles/year
GHG Emissions of Gasoline/Diesel Vehicle <sup>6</sup>	1,168	MT CO <sub>2</sub> e/year
GHG Emissions of Electric Vehicle <sup>7</sup>	358	MT CO <sub>2</sub> e/year
GHG Emissions Reduction <sup>8</sup>	810	MT CO <sub>2</sub> e/year
GHG Reduction per Parking Space with Charging per Year	11	MT CO <sub>2</sub> e/year

Notes:

1. Based on 2019 Sustainability Report for SCE.
2. US Department of Energy. 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. [https://www.afdc.energy.gov/fuels/electricity\\_benefits.html](https://www.afdc.energy.gov/fuels/electricity_benefits.html). Accessed October 2018.
3. California Air Resources Board. 2021. EMFAC 2021. Running exhaust emission rate for CO<sub>2</sub> for light duty gasoline- and diesel-powered vehicles for South Coast Air Basin, aggregated for all models and speeds, averaged over all seasons for 2024. <https://www.arb.ca.gov/emfac/>. Accessed March 2021.
4. Annual VMT reduction estimated based on an estimate of 8 hours of charge time for a Level 2 charging station that charges at a rate of 25 miles of driving range per hour.
5. Number of charging stations based on project commitment. This assumes 43 parking spaces would be serviced by a charging station.
6. GHG emissions calculated using annual VMT reduction at all stations.
7. GHG emissions calculated using annual VMT reduction at all stations, fuel economy of electric vehicles, along with SCE electricity intensity emission factor.
8. GHG emission reduction is a difference of GHG emissions of gasoline vehicles and GHG emissions of electric vehicles.



## Reduced Development Intensity Alternative (Alternative 3)

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

**Oakmont Mission and Ramona Industrial Park Reduced Alt**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	171.31	1000sqft	3.93	171,313.00	0
Unrefrigerated Warehouse-No Rail	239.39	1000sqft	5.50	239,393.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative Scenario 2.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier per mitigation requirements.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water effiecent features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - Calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

Stationary Sources - Emergency Generators and Fire Pumps EF -

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,506.00
tblTripsAndVMT	VendorTripNumber	181.00	182.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	93.00	94.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

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**2.0 Emissions Summary****2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1340	1.7160	0.8903	2.9200e-003	0.5895	0.0601	0.6497	0.1831	0.0556	0.2387	0.0000	271.0602	271.0602	0.0481	0.0000	272.2637
2022	0.5269	4.8093	4.6006	0.0159	0.9082	0.1264	1.0346	0.2603	0.1184	0.3787	0.0000	1,460.031 1	1,460.031 1	0.1414	0.0000	1,463.564 9
2023	1.2840	3.1429	3.8365	0.0128	0.6658	0.0883	0.7541	0.1796	0.0829	0.2625	0.0000	1,169.773 8	1,169.773 8	0.1044	0.0000	1,172.383 8
2024	1.1481	0.0143	0.0441	1.2000e-004	0.0103	6.8000e-004	0.0110	2.7400e-003	6.8000e-004	3.4100e-003	0.0000	10.6170	10.6170	3.2000e-004	0.0000	10.6251
<b>Maximum</b>	<b>1.2840</b>	<b>4.8093</b>	<b>4.6006</b>	<b>0.0159</b>	<b>0.9082</b>	<b>0.1264</b>	<b>1.0346</b>	<b>0.2603</b>	<b>0.1184</b>	<b>0.3787</b>	<b>0.0000</b>	<b>1,460.031 1</b>	<b>1,460.031 1</b>	<b>0.1414</b>	<b>0.0000</b>	<b>1,463.564 9</b>

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**2.1 Overall Construction**

**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					
2021	0.1340	1.7160	0.8903	2.9200e-003	0.2972	0.0601	0.3573	0.0908	0.0556	0.1464	0.0000	271.0600	271.0600	0.0481	0.0000	272.2635
2022	0.5269	4.8093	4.6006	0.0159	0.8246	0.1264	0.9510	0.2293	0.1184	0.3477	0.0000	1,460.0307	1,460.0307	0.1414	0.0000	1,463.5645
2023	1.2840	3.1429	3.8365	0.0128	0.6658	0.0883	0.7541	0.1796	0.0829	0.2625	0.0000	1,169.7735	1,169.7735	0.1044	0.0000	1,172.3835
2024	1.1481	0.0143	0.0441	1.2000e-004	0.0103	6.8000e-004	0.0110	2.7400e-003	6.8000e-004	3.4100e-003	0.0000	10.6170	10.6170	3.2000e-004	0.0000	10.6251
<b>Maximum</b>	<b>1.2840</b>	<b>4.8093</b>	<b>4.6006</b>	<b>0.0159</b>	<b>0.8246</b>	<b>0.1264</b>	<b>0.9510</b>	<b>0.2293</b>	<b>0.1184</b>	<b>0.3477</b>	<b>0.0000</b>	<b>1,460.0307</b>	<b>1,460.0307</b>	<b>0.1414</b>	<b>0.0000</b>	<b>1,463.5645</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>17.29</b>	<b>0.00</b>	<b>15.35</b>	<b>19.71</b>	<b>0.00</b>	<b>13.96</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-4-2021	1-3-2022	1.8746	1.8746
2	1-4-2022	4-3-2022	1.6157	1.6157
3	4-4-2022	7-3-2022	1.2109	1.2109
4	7-4-2022	10-3-2022	1.2245	1.2245
5	10-4-2022	1-3-2023	1.2260	1.2260
6	1-4-2023	4-3-2023	1.0200	1.0200
7	4-4-2023	7-3-2023	1.0249	1.0249
8	7-4-2023	10-3-2023	1.0364	1.0364

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9	10-4-2023	1-3-2024	1.4926	1.4926
10	1-4-2024	4-3-2024	0.9551	0.9551
		Highest	1.8746	1.8746

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7302	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275
Energy	5.8300e-003	0.0530	0.0445	3.2000e-004		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	57.6555	57.6555	1.1100e-003	1.0600e-003	57.9982
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	88.7984	0.0000	88.7984	5.2478	0.0000	219.9943
Water						0.0000	0.0000		0.0000	0.0000	30.1310	0.0000	30.1310	3.0947	0.0731	129.2754
<b>Total</b>	<b>1.7361</b>	<b>0.0531</b>	<b>0.0577</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>118.9294</b>	<b>57.6813</b>	<b>176.6107</b>	<b>8.3438</b>	<b>0.0741</b>	<b>407.2953</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	1.7302	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275
Energy	5.8300e-003	0.0530	0.0445	3.2000e-004		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	57.6555	57.6555	1.1100e-003	1.0600e-003	57.9982
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	88.7984	0.0000	88.7984	5.2478	0.0000	219.9943
Water						0.0000	0.0000		0.0000	0.0000	24.1048	0.0000	24.1048	2.4758	0.0585	103.4204
<b>Total</b>	<b>1.7361</b>	<b>0.0531</b>	<b>0.0577</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>4.0800e-003</b>	<b>4.0800e-003</b>	<b>112.9032</b>	<b>57.6813</b>	<b>170.5845</b>	<b>7.7248</b>	<b>0.0595</b>	<b>381.4403</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>5.07</b>	<b>0.00</b>	<b>3.41</b>	<b>7.42</b>	<b>19.71</b>	<b>6.35</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 112.5**

**Acres of Paving: 15.94**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 616,059; Non-Residential Outdoor: 205,353; Striped Parking Area: 41,671 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Demolition	6	16.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	464.00	182.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	94.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**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					0.2440	0.0000	0.2440	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.2440</b>	<b>0.0233</b>	<b>0.2673</b>	<b>0.0370</b>	<b>0.0216</b>	<b>0.0586</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**3.2 Demolition - 2021**

**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	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.2800e-003</b>	<b>0.2947</b>	<b>0.0707</b>	<b>8.9000e-004</b>	<b>0.0220</b>	<b>9.1000e-004</b>	<b>0.0229</b>	<b>6.0200e-003</b>	<b>8.7000e-004</b>	<b>6.9000e-003</b>	<b>0.0000</b>	<b>86.5213</b>	<b>86.5213</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>86.6670</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					0.1098	0.0000	0.1098	0.0166	0.0000	0.0166	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.1098</b>	<b>0.0233</b>	<b>0.1331</b>	<b>0.0166</b>	<b>0.0216</b>	<b>0.0383</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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**3.2 Demolition - 2021**

**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	8.2800e-003	0.2940	0.0624	8.6000e-004	0.0194	8.9000e-004	0.0203	5.3200e-003	8.5000e-004	6.1800e-003	0.0000	84.2277	84.2277	5.7700e-003	0.0000	84.3719
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.4000e-004	8.3600e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2936	2.2936	6.0000e-005	0.0000	2.2951
<b>Total</b>	<b>9.2800e-003</b>	<b>0.2947</b>	<b>0.0707</b>	<b>8.9000e-004</b>	<b>0.0220</b>	<b>9.1000e-004</b>	<b>0.0229</b>	<b>6.0200e-003</b>	<b>8.7000e-004</b>	<b>6.9000e-003</b>	<b>0.0000</b>	<b>86.5213</b>	<b>86.5213</b>	<b>5.8300e-003</b>	<b>0.0000</b>	<b>86.6670</b>

**3.3 Site Preparation - 2021**

**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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.1807</b>	<b>0.0204</b>	<b>0.2011</b>	<b>0.0993</b>	<b>0.0188</b>	<b>0.1181</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7061</b>

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**3.3 Site Preparation - 2021**

**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	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>7.5000e-004</b>	<b>5.5000e-004</b>	<b>6.2700e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7202</b>	<b>1.7202</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7213</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					0.0813	0.0000	0.0813	0.0447	0.0000	0.0447	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
<b>Total</b>	<b>0.0389</b>	<b>0.4050</b>	<b>0.2115</b>	<b>3.8000e-004</b>	<b>0.0813</b>	<b>0.0204</b>	<b>0.1017</b>	<b>0.0447</b>	<b>0.0188</b>	<b>0.0635</b>	<b>0.0000</b>	<b>33.4357</b>	<b>33.4357</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7060</b>

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**3.3 Site Preparation - 2021**

**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	7.5000e-004	5.5000e-004	6.2700e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7202	1.7202	5.0000e-005	0.0000	1.7213
<b>Total</b>	<b>7.5000e-004</b>	<b>5.5000e-004</b>	<b>6.2700e-003</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>1.7202</b>	<b>1.7202</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7213</b>

**3.4 Grading - 2021**

**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					0.1069	0.0000	0.1069	0.0316	0.0000	0.0316	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3480	0.2316	4.7000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	40.8712	40.8712	0.0132	0.0000	41.2017
<b>Total</b>	<b>0.0314</b>	<b>0.3480</b>	<b>0.2316</b>	<b>4.7000e-004</b>	<b>0.1069</b>	<b>0.0149</b>	<b>0.1218</b>	<b>0.0316</b>	<b>0.0137</b>	<b>0.0453</b>	<b>0.0000</b>	<b>40.8712</b>	<b>40.8712</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2017</b>



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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.1500e-003</b>	<b>0.1962</b>	<b>0.0467</b>	<b>5.9000e-004</b>	<b>0.0340</b>	<b>6.0000e-004</b>	<b>0.0346</b>	<b>8.7600e-003</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>57.5106</b>	<b>57.5106</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>57.6076</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					0.0481	0.0000	0.0481	0.0142	0.0000	0.0142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0314	0.3480	0.2316	4.7000e-004		0.0149	0.0149		0.0137	0.0137	0.0000	40.8712	40.8712	0.0132	0.0000	41.2017
<b>Total</b>	<b>0.0314</b>	<b>0.3480</b>	<b>0.2316</b>	<b>4.7000e-004</b>	<b>0.0481</b>	<b>0.0149</b>	<b>0.0630</b>	<b>0.0142</b>	<b>0.0137</b>	<b>0.0279</b>	<b>0.0000</b>	<b>40.8712</b>	<b>40.8712</b>	<b>0.0132</b>	<b>0.0000</b>	<b>41.2017</b>

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**3.4 Grading - 2021**

**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	5.5200e-003	0.1957	0.0415	5.7000e-004	0.0324	5.9000e-004	0.0329	8.3200e-003	5.7000e-004	8.8800e-003	0.0000	56.0771	56.0771	3.8400e-003	0.0000	56.1731
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	6.3000e-004	4.6000e-004	5.2300e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4335	1.4335	4.0000e-005	0.0000	1.4345
<b>Total</b>	<b>6.1500e-003</b>	<b>0.1962</b>	<b>0.0467</b>	<b>5.9000e-004</b>	<b>0.0340</b>	<b>6.0000e-004</b>	<b>0.0346</b>	<b>8.7600e-003</b>	<b>5.8000e-004</b>	<b>9.3300e-003</b>	<b>0.0000</b>	<b>57.5106</b>	<b>57.5106</b>	<b>3.8800e-003</b>	<b>0.0000</b>	<b>57.6076</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1520	0.0000	0.1520	0.0564	0.0000	0.0564	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8019	81.8019	0.0265	0.0000	82.4633
<b>Total</b>	<b>0.0544</b>	<b>0.5827</b>	<b>0.4356</b>	<b>9.3000e-004</b>	<b>0.1520</b>	<b>0.0245</b>	<b>0.1765</b>	<b>0.0564</b>	<b>0.0226</b>	<b>0.0790</b>	<b>0.0000</b>	<b>81.8019</b>	<b>81.8019</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4633</b>

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**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
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	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0116</b>	<b>0.3621</b>	<b>0.0916</b>	<b>1.1600e-003</b>	<b>0.0388</b>	<b>1.0400e-003</b>	<b>0.0399</b>	<b>0.0103</b>	<b>1.0000e-003</b>	<b>0.0114</b>	<b>0.0000</b>	<b>113.5882</b>	<b>113.5882</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>113.7783</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					0.0684	0.0000	0.0684	0.0254	0.0000	0.0254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0544	0.5827	0.4356	9.3000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	81.8018	81.8018	0.0265	0.0000	82.4632
<b>Total</b>	<b>0.0544</b>	<b>0.5827</b>	<b>0.4356</b>	<b>9.3000e-004</b>	<b>0.0684</b>	<b>0.0245</b>	<b>0.0929</b>	<b>0.0254</b>	<b>0.0226</b>	<b>0.0479</b>	<b>0.0000</b>	<b>81.8018</b>	<b>81.8018</b>	<b>0.0265</b>	<b>0.0000</b>	<b>82.4632</b>

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**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0105	0.3613	0.0820	1.1300e-003	0.0355	1.0200e-003	0.0366	9.4700e-003	9.8000e-004	0.0105	0.0000	110.8240	110.8240	7.5400e-003	0.0000	111.0124
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	1.1700e-003	8.3000e-004	9.6500e-003	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.7642	2.7642	7.0000e-005	0.0000	2.7659
<b>Total</b>	<b>0.0116</b>	<b>0.3621</b>	<b>0.0916</b>	<b>1.1600e-003</b>	<b>0.0388</b>	<b>1.0400e-003</b>	<b>0.0399</b>	<b>0.0103</b>	<b>1.0000e-003</b>	<b>0.0114</b>	<b>0.0000</b>	<b>113.5882</b>	<b>113.5882</b>	<b>7.6100e-003</b>	<b>0.0000</b>	<b>113.7783</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4840</b>	<b>266.4840</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0801</b>

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**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0558	1.9203	0.4746	5.2300e-003	0.1319	3.5300e-003	0.1355	0.0381	3.3800e-003	0.0414	0.0000	506.4995	506.4995	0.0311	0.0000	507.2770
Worker	0.2089	0.1485	1.7170	5.4400e-003	0.5854	4.2600e-003	0.5897	0.1555	3.9300e-003	0.1594	0.0000	491.6574	491.6574	0.0124	0.0000	491.9662
<b>Total</b>	<b>0.2647</b>	<b>2.0688</b>	<b>2.1915</b>	<b>0.0107</b>	<b>0.7174</b>	<b>7.7900e-003</b>	<b>0.7252</b>	<b>0.1936</b>	<b>7.3100e-003</b>	<b>0.2008</b>	<b>0.0000</b>	<b>998.1570</b>	<b>998.1570</b>	<b>0.0435</b>	<b>0.0000</b>	<b>999.2432</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	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
<b>Total</b>	<b>0.1962</b>	<b>1.7958</b>	<b>1.8818</b>	<b>3.1000e-003</b>		<b>0.0930</b>	<b>0.0930</b>		<b>0.0875</b>	<b>0.0875</b>	<b>0.0000</b>	<b>266.4837</b>	<b>266.4837</b>	<b>0.0638</b>	<b>0.0000</b>	<b>268.0798</b>

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**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0558	1.9203	0.4746	5.2300e-003	0.1319	3.5300e-003	0.1355	0.0381	3.3800e-003	0.0414	0.0000	506.4995	506.4995	0.0311	0.0000	507.2770
Worker	0.2089	0.1485	1.7170	5.4400e-003	0.5854	4.2600e-003	0.5897	0.1555	3.9300e-003	0.1594	0.0000	491.6574	491.6574	0.0124	0.0000	491.9662
<b>Total</b>	<b>0.2647</b>	<b>2.0688</b>	<b>2.1915</b>	<b>0.0107</b>	<b>0.7174</b>	<b>7.7900e-003</b>	<b>0.7252</b>	<b>0.1936</b>	<b>7.3100e-003</b>	<b>0.2008</b>	<b>0.0000</b>	<b>998.1570</b>	<b>998.1570</b>	<b>0.0435</b>	<b>0.0000</b>	<b>999.2432</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	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3950	243.3950	0.0579	0.0000	244.8425
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3950</b>	<b>243.3950</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8425</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.3193	0.3874	4.6200e-003	0.1205	1.5000e-003	0.1220	0.0348	1.4300e-003	0.0362	0.0000	448.5165	448.5165	0.0247	0.0000	449.1336
Worker	0.1795	0.1226	1.4455	4.7800e-003	0.5345	3.7900e-003	0.5383	0.1420	3.4900e-003	0.1455	0.0000	432.1630	432.1630	0.0102	0.0000	432.4171
<b>Total</b>	<b>0.2176</b>	<b>1.4419</b>	<b>1.8328</b>	<b>9.4000e-003</b>	<b>0.6550</b>	<b>5.2900e-003</b>	<b>0.6603</b>	<b>0.1767</b>	<b>4.9200e-003</b>	<b>0.1816</b>	<b>0.0000</b>	<b>880.6796</b>	<b>880.6796</b>	<b>0.0348</b>	<b>0.0000</b>	<b>881.5507</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	0.1651	1.5104	1.7056	2.8300e-003		0.0735	0.0735		0.0691	0.0691	0.0000	243.3947	243.3947	0.0579	0.0000	244.8422
<b>Total</b>	<b>0.1651</b>	<b>1.5104</b>	<b>1.7056</b>	<b>2.8300e-003</b>		<b>0.0735</b>	<b>0.0735</b>		<b>0.0691</b>	<b>0.0691</b>	<b>0.0000</b>	<b>243.3947</b>	<b>243.3947</b>	<b>0.0579</b>	<b>0.0000</b>	<b>244.8422</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0381	1.3193	0.3874	4.6200e-003	0.1205	1.5000e-003	0.1220	0.0348	1.4300e-003	0.0362	0.0000	448.5165	448.5165	0.0247	0.0000	449.1336
Worker	0.1795	0.1226	1.4455	4.7800e-003	0.5345	3.7900e-003	0.5383	0.1420	3.4900e-003	0.1455	0.0000	432.1630	432.1630	0.0102	0.0000	432.4171
<b>Total</b>	<b>0.2176</b>	<b>1.4419</b>	<b>1.8328</b>	<b>9.4000e-003</b>	<b>0.6550</b>	<b>5.2900e-003</b>	<b>0.6603</b>	<b>0.1767</b>	<b>4.9200e-003</b>	<b>0.1816</b>	<b>0.0000</b>	<b>880.6796</b>	<b>880.6796</b>	<b>0.0348</b>	<b>0.0000</b>	<b>881.5507</b>

**3.6 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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>



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**3.6 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	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.0300e-003</b>	<b>7.0000e-004</b>	<b>8.3100e-003</b>	<b>3.0000e-005</b>	<b>3.0700e-003</b>	<b>2.0000e-005</b>	<b>3.0900e-003</b>	<b>8.2000e-004</b>	<b>2.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.4837</b>	<b>2.4837</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4852</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	0.0181	0.1784	0.2552	4.0000e-004		8.9300e-003	8.9300e-003		8.2100e-003	8.2100e-003	0.0000	35.0470	35.0470	0.0113	0.0000	35.3304
Paving	0.0209					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0390</b>	<b>0.1784</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>8.9300e-003</b>	<b>8.9300e-003</b>		<b>8.2100e-003</b>	<b>8.2100e-003</b>	<b>0.0000</b>	<b>35.0470</b>	<b>35.0470</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3304</b>

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**3.6 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	1.0300e-003	7.0000e-004	8.3100e-003	3.0000e-005	3.0700e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.4837	2.4837	6.0000e-005	0.0000	2.4852
<b>Total</b>	<b>1.0300e-003</b>	<b>7.0000e-004</b>	<b>8.3100e-003</b>	<b>3.0000e-005</b>	<b>3.0700e-003</b>	<b>2.0000e-005</b>	<b>3.0900e-003</b>	<b>8.2000e-004</b>	<b>2.0000e-005</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.4837</b>	<b>2.4837</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.4852</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.8587</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-003	1.7700e-003	0.0209	7.0000e-005	7.7300e-003	5.0000e-005	7.7900e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	6.2536	6.2536	1.5000e-004	0.0000	6.2573
<b>Total</b>	<b>2.6000e-003</b>	<b>1.7700e-003</b>	<b>0.0209</b>	<b>7.0000e-005</b>	<b>7.7300e-003</b>	<b>5.0000e-005</b>	<b>7.7900e-003</b>	<b>2.0500e-003</b>	<b>5.0000e-005</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>6.2536</b>	<b>6.2536</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>6.2573</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	0.8572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4400e-003	9.7700e-003	0.0136	2.0000e-005		5.3000e-004	5.3000e-004		5.3000e-004	5.3000e-004	0.0000	1.9149	1.9149	1.1000e-004	0.0000	1.9178
<b>Total</b>	<b>0.8587</b>	<b>9.7700e-003</b>	<b>0.0136</b>	<b>2.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.9149</b>	<b>1.9149</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9178</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-003	1.7700e-003	0.0209	7.0000e-005	7.7300e-003	5.0000e-005	7.7900e-003	2.0500e-003	5.0000e-005	2.1000e-003	0.0000	6.2536	6.2536	1.5000e-004	0.0000	6.2573
<b>Total</b>	<b>2.6000e-003</b>	<b>1.7700e-003</b>	<b>0.0209</b>	<b>7.0000e-005</b>	<b>7.7300e-003</b>	<b>5.0000e-005</b>	<b>7.7900e-003</b>	<b>2.0500e-003</b>	<b>5.0000e-005</b>	<b>2.1000e-003</b>	<b>0.0000</b>	<b>6.2536</b>	<b>6.2536</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>6.2573</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
<b>Total</b>	<b>1.1448</b>	<b>0.0122</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5569</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2800e-003	2.1600e-003	0.0260	9.0000e-005	0.0103	7.0000e-005	0.0104	2.7400e-003	7.0000e-005	2.8100e-003	0.0000	8.0637	8.0637	1.8000e-004	0.0000	8.0682
<b>Total</b>	<b>3.2800e-003</b>	<b>2.1600e-003</b>	<b>0.0260</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>7.0000e-005</b>	<b>0.0104</b>	<b>2.7400e-003</b>	<b>7.0000e-005</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>8.0637</b>	<b>8.0637</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>8.0682</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	1.1430					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
<b>Total</b>	<b>1.1448</b>	<b>0.0122</b>	<b>0.0181</b>	<b>3.0000e-005</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.5568</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2800e-003	2.1600e-003	0.0260	9.0000e-005	0.0103	7.0000e-005	0.0104	2.7400e-003	7.0000e-005	2.8100e-003	0.0000	8.0637	8.0637	1.8000e-004	0.0000	8.0682
<b>Total</b>	<b>3.2800e-003</b>	<b>2.1600e-003</b>	<b>0.0260</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>7.0000e-005</b>	<b>0.0104</b>	<b>2.7400e-003</b>	<b>7.0000e-005</b>	<b>2.8100e-003</b>	<b>0.0000</b>	<b>8.0637</b>	<b>8.0637</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>8.0682</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	5.8300e-003	0.0530	0.0445	3.2000e-004		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	57.6555	57.6555	1.1100e-003	1.0600e-003	57.9982
NaturalGas Unmitigated	5.8300e-003	0.0530	0.0445	3.2000e-004		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	57.6555	57.6555	1.1100e-003	1.0600e-003	57.9982



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Industrial Park	594456	3.2100e-003	0.0291	0.0245	1.7000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	31.7224	31.7224	6.1000e-004	5.8000e-004	31.9110
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
Unrefrigerated Warehouse-No Rail	485968	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9331	25.9331	5.0000e-004	4.8000e-004	26.0872
<b>Total</b>		<b>5.8300e-003</b>	<b>0.0530</b>	<b>0.0445</b>	<b>3.1000e-004</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>57.6555</b>	<b>57.6555</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>57.9982</b>

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**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	tons/yr										MT/yr					
Industrial Park	594456	3.2100e-003	0.0291	0.0245	1.7000e-004		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	31.7224	31.7224	6.1000e-004	5.8000e-004	31.9110
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
Unrefrigerated Warehouse-No Rail	485968	2.6200e-003	0.0238	0.0200	1.4000e-004		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	25.9331	25.9331	5.0000e-004	4.8000e-004	26.0872
<b>Total</b>		<b>5.8300e-003</b>	<b>0.0530</b>	<b>0.0445</b>	<b>3.1000e-004</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>		<b>4.0200e-003</b>	<b>4.0200e-003</b>	<b>0.0000</b>	<b>57.6555</b>	<b>57.6555</b>	<b>1.1100e-003</b>	<b>1.0600e-003</b>	<b>57.9982</b>

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.6309e+006	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	564967	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	1.6309e+006	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219448	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	564967	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7302	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275
Unmitigated	1.7302	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275

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	0.2000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2200e-003	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275
<b>Total</b>	<b>1.7302</b>	<b>1.2000e-004</b>	<b>0.0132</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0258</b>	<b>0.0258</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0275</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2200e-003	1.2000e-004	0.0132	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.0258	0.0258	7.0000e-005	0.0000	0.0275
<b>Total</b>	<b>1.7302</b>	<b>1.2000e-004</b>	<b>0.0132</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0258</b>	<b>0.0258</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0275</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.1048	2.4758	0.0585	103.4204
Unmitigated	30.1310	3.0947	0.0731	129.2754

**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	39.6154 / 0	12.5682	1.2909	0.0305	53.9230
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	55.3589 / 0	17.5628	1.8039	0.0426	75.3524
<b>Total</b>		<b>30.1310</b>	<b>3.0947</b>	<b>0.0731</b>	<b>129.2754</b>

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	31.6924 / 0	10.0545	1.0327	0.0244	43.1384
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	44.2871 / 0	14.0503	1.4431	0.0341	60.2820
<b>Total</b>		<b>24.1048</b>	<b>2.4758</b>	<b>0.0585</b>	<b>103.4204</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	88.7984	5.2478	0.0000	219.9943
Unmitigated	88.7984	5.2478	0.0000	219.9943

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	212.42	43.1193	2.5483	0.0000	106.8263
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	225.03	45.6791	2.6996	0.0000	113.1679
<b>Total</b>		<b>88.7984</b>	<b>5.2478</b>	<b>0.0000</b>	<b>219.9943</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	212.42	43.1193	2.5483	0.0000	106.8263
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	225.03	45.6791	2.6996	0.0000	113.1679
<b>Total</b>		<b>88.7984</b>	<b>5.2478</b>	<b>0.0000</b>	<b>219.9943</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

**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**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Annual

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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Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**Oakmont Mission and Ramona Industrial Park Reduced Alt**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	171.31	1000sqft	3.93	171,313.00	0
Unrefrigerated Warehouse-No Rail	239.39	1000sqft	5.50	239,393.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative Scenario 2.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier per mitigation requirements.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water effiecent features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - Calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Stationary Sources - Emergency Generators and Fire Pumps EF -

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,506.00
tblTripsAndVMT	VendorTripNumber	181.00	182.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	93.00	94.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.0022	71.7872	36.9943	0.1410	18.2675	2.0655	20.3134	9.9840	1.9032	11.8663	0.0000	14,534.9803	14,534.9803	2.5029	0.0000	14,597.5532
2022	4.3939	62.3000	36.4199	0.1400	11.3991	1.7040	13.1031	4.3115	1.5702	5.8817	0.0000	14,433.4349	14,433.4349	2.4937	0.0000	14,495.7780
2023	114.8385	27.8799	34.6782	0.1193	6.3512	0.7499	7.1011	1.7108	0.7051	2.4159	0.0000	12,090.7984	12,090.7984	0.9723	0.0000	12,115.1048
2024	114.8088	1.4105	4.6349	0.0123	1.0507	0.0681	1.1188	0.2787	0.0676	0.3462	0.0000	1,216.0045	1,216.0045	0.0368	0.0000	1,216.9236
<b>Maximum</b>	<b>114.8385</b>	<b>71.7872</b>	<b>36.9943</b>	<b>0.1410</b>	<b>18.2675</b>	<b>2.0655</b>	<b>20.3134</b>	<b>9.9840</b>	<b>1.9032</b>	<b>11.8663</b>	<b>0.0000</b>	<b>14,534.9803</b>	<b>14,534.9803</b>	<b>2.5029</b>	<b>0.0000</b>	<b>14,597.5532</b>





Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Energy	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
Mobile	0.0000	0.0000	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>9.5157</b>	<b>0.2912</b>	<b>0.3497</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>		<b>348.4704</b>	<b>348.4704</b>	<b>7.2600e-003</b>	<b>6.3800e-003</b>	<b>350.5547</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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Energy	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
Mobile	0.0000	0.0000	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>9.5157</b>	<b>0.2912</b>	<b>0.3497</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>		<b>348.4704</b>	<b>348.4704</b>	<b>7.2600e-003</b>	<b>6.3800e-003</b>	<b>350.5547</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 616,059; Non-Residential Outdoor: 205,353; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	464.00	182.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	94.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
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
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6132</b>	<b>19.0686</b>	<b>4.6299</b>	<b>0.0594</b>	<b>1.4929</b>	<b>0.0603</b>	<b>1.5532</b>	<b>0.4075</b>	<b>0.0576</b>	<b>0.4652</b>		<b>6,415.3221</b>	<b>6,415.3221</b>	<b>0.4209</b>		<b>6,425.8455</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	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.5456	19.0248	4.0272	0.0576	1.3140	0.0590	1.3730	0.3601	0.0564	0.4165		6,238.1375	6,238.1375	0.4162		6,248.5419
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
Worker	0.0675	0.0438	0.6028	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		177.1845	177.1845	4.7600e-003		177.3037
<b>Total</b>	<b>0.6132</b>	<b>19.0686</b>	<b>4.6299</b>	<b>0.0594</b>	<b>1.4929</b>	<b>0.0603</b>	<b>1.5532</b>	<b>0.4075</b>	<b>0.0576</b>	<b>0.4652</b>		<b>6,415.3221</b>	<b>6,415.3221</b>	<b>0.4209</b>		<b>6,425.8455</b>

**3.3 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0760</b>	<b>0.0493</b>	<b>0.6781</b>	<b>2.0000e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>199.3326</b>	<b>199.3326</b>	<b>5.3600e-003</b>		<b>199.4666</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0760	0.0493	0.6781	2.0000e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		199.3326	199.3326	5.3600e-003		199.4666
<b>Total</b>	<b>0.0760</b>	<b>0.0493</b>	<b>0.6781</b>	<b>2.0000e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>199.3326</b>	<b>199.3326</b>	<b>5.3600e-003</b>		<b>199.4666</b>

**3.4 Grading - 2021**

**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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>8.7639</b>	<b>1.9853</b>	<b>10.7493</b>	<b>3.6102</b>	<b>1.8265</b>	<b>5.4367</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.456 2	8,306.456 2	0.5542		8,320.310 2
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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8110</b>	<b>25.3874</b>	<b>6.1158</b>	<b>0.0790</b>	<b>4.6210</b>	<b>0.0802</b>	<b>4.7012</b>	<b>1.1887</b>	<b>0.0766</b>	<b>1.2653</b>		<b>8,527.936 8</b>	<b>8,527.936 8</b>	<b>0.5601</b>		<b>8,541.939 8</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	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>3.9438</b>	<b>1.9853</b>	<b>5.9291</b>	<b>1.6246</b>	<b>1.8265</b>	<b>3.4511</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.7266	25.3326	5.3624	0.0767	4.3975	0.0785	4.4760	1.1294	0.0751	1.2045		8,306.4562	8,306.4562	0.5542		8,320.3102
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
Worker	0.0844	0.0548	0.7535	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.4807	221.4807	5.9600e-003		221.6296
<b>Total</b>	<b>0.8110</b>	<b>25.3874</b>	<b>6.1158</b>	<b>0.0790</b>	<b>4.6210</b>	<b>0.0802</b>	<b>4.7012</b>	<b>1.1887</b>	<b>0.0766</b>	<b>1.2653</b>		<b>8,527.9368</b>	<b>8,527.9368</b>	<b>0.5601</b>		<b>8,541.9398</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.7639</b>	<b>1.6349</b>	<b>10.3988</b>	<b>3.6102</b>	<b>1.5041</b>	<b>5.1143</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
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
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7691</b>	<b>23.4565</b>	<b>5.9981</b>	<b>0.0779</b>	<b>2.6352</b>	<b>0.0691</b>	<b>2.7043</b>	<b>0.7013</b>	<b>0.0661</b>	<b>0.7673</b>		<b>8,422.0244</b>	<b>8,422.0244</b>	<b>0.5495</b>		<b>8,435.7622</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	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.9438</b>	<b>1.6349</b>	<b>5.5787</b>	<b>1.6246</b>	<b>1.5041</b>	<b>3.1287</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6899	23.4071	5.3014	0.0758	2.4116	0.0675	2.4792	0.6420	0.0646	0.7066		8,208.4796	8,208.4796	0.5441		8,222.0828
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
Worker	0.0792	0.0495	0.6967	2.1400e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		213.5448	213.5448	5.3800e-003		213.6794
<b>Total</b>	<b>0.7691</b>	<b>23.4565</b>	<b>5.9981</b>	<b>0.0779</b>	<b>2.6352</b>	<b>0.0691</b>	<b>2.7043</b>	<b>0.7013</b>	<b>0.0661</b>	<b>0.7673</b>		<b>8,422.0244</b>	<b>8,422.0244</b>	<b>0.5495</b>		<b>8,435.7622</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4749	16.4770	3.8929	0.0460	1.1648	0.0303	1.1951	0.3353	0.0290	0.3643		4,915.0761	4,915.0761	0.2888		4,922.2947
Worker	1.8372	1.1475	16.1636	0.0497	5.1864	0.0371	5.2235	1.3755	0.0342	1.4096		4,954.2390	4,954.2390	0.1249		4,957.3611
<b>Total</b>	<b>2.3121</b>	<b>17.6245</b>	<b>20.0565</b>	<b>0.0957</b>	<b>6.3513</b>	<b>0.0674</b>	<b>6.4186</b>	<b>1.7108</b>	<b>0.0631</b>	<b>1.7739</b>		<b>9,869.3151</b>	<b>9,869.3151</b>	<b>0.4136</b>		<b>9,879.6558</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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.4749	16.4770	3.8929	0.0460	1.1648	0.0303	1.1951	0.3353	0.0290	0.3643		4,915.076 1	4,915.076 1	0.2888		4,922.294 7
Worker	1.8372	1.1475	16.1636	0.0497	5.1864	0.0371	5.2235	1.3755	0.0342	1.4096		4,954.239 0	4,954.239 0	0.1249		4,957.361 1
<b>Total</b>	<b>2.3121</b>	<b>17.6245</b>	<b>20.0565</b>	<b>0.0957</b>	<b>6.3513</b>	<b>0.0674</b>	<b>6.4186</b>	<b>1.7108</b>	<b>0.0631</b>	<b>1.7739</b>		<b>9,869.315 1</b>	<b>9,869.315 1</b>	<b>0.4136</b>		<b>9,879.655 8</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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<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>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**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	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
Vendor	0.3543	12.4567	3.5075	0.0446	1.1648	0.0140	1.1788	0.3353	0.0134	0.3487		4,765.9925	4,765.9925	0.2518		4,772.2871
Worker	1.7274	1.0383	14.9267	0.0479	5.1864	0.0361	5.2226	1.3755	0.0333	1.4087		4,769.5960	4,769.5960	0.1126		4,772.4117
<b>Total</b>	<b>2.0817</b>	<b>13.4950</b>	<b>18.4342</b>	<b>0.0924</b>	<b>6.3512</b>	<b>0.0501</b>	<b>6.4014</b>	<b>1.7108</b>	<b>0.0467</b>	<b>1.7574</b>		<b>9,535.5884</b>	<b>9,535.5884</b>	<b>0.3644</b>		<b>9,544.6988</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	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>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**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	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
Vendor	0.3543	12.4567	3.5075	0.0446	1.1648	0.0140	1.1788	0.3353	0.0134	0.3487		4,765.9925	4,765.9925	0.2518		4,772.2871
Worker	1.7274	1.0383	14.9267	0.0479	5.1864	0.0361	5.2226	1.3755	0.0333	1.4087		4,769.5960	4,769.5960	0.1126		4,772.4117
<b>Total</b>	<b>2.0817</b>	<b>13.4950</b>	<b>18.4342</b>	<b>0.0924</b>	<b>6.3512</b>	<b>0.0501</b>	<b>6.4014</b>	<b>1.7108</b>	<b>0.0467</b>	<b>1.7574</b>		<b>9,535.5884</b>	<b>9,535.5884</b>	<b>0.3644</b>		<b>9,544.6988</b>

**3.6 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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.6 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	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
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
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0596</b>	<b>0.0358</b>	<b>0.5147</b>	<b>1.6500e-003</b>	<b>0.1788</b>	<b>1.2500e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1500e-003</b>	<b>0.0486</b>		<b>164.4688</b>	<b>164.4688</b>	<b>3.8800e-003</b>		<b>164.5659</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	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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.6 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	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
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
Worker	0.0596	0.0358	0.5147	1.6500e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		164.4688	164.4688	3.8800e-003		164.5659
<b>Total</b>	<b>0.0596</b>	<b>0.0358</b>	<b>0.5147</b>	<b>1.6500e-003</b>	<b>0.1788</b>	<b>1.2500e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1500e-003</b>	<b>0.0486</b>		<b>164.4688</b>	<b>164.4688</b>	<b>3.8800e-003</b>		<b>164.5659</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4885</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3500	0.2103	3.0239	9.6900e-003	1.0507	7.3200e-003	1.0580	0.2787	6.7400e-003	0.2854		966.2544	966.2544	0.0228		966.8248
<b>Total</b>	<b>0.3500</b>	<b>0.2103</b>	<b>3.0239</b>	<b>9.6900e-003</b>	<b>1.0507</b>	<b>7.3200e-003</b>	<b>1.0580</b>	<b>0.2787</b>	<b>6.7400e-003</b>	<b>0.2854</b>		<b>966.2544</b>	<b>966.2544</b>	<b>0.0228</b>		<b>966.8248</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	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4885</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3500	0.2103	3.0239	9.6900e-003	1.0507	7.3200e-003	1.0580	0.2787	6.7400e-003	0.2854		966.2544	966.2544	0.0228		966.8248
<b>Total</b>	<b>0.3500</b>	<b>0.2103</b>	<b>3.0239</b>	<b>9.6900e-003</b>	<b>1.0507</b>	<b>7.3200e-003</b>	<b>1.0580</b>	<b>0.2787</b>	<b>6.7400e-003</b>	<b>0.2854</b>		<b>966.2544</b>	<b>966.2544</b>	<b>0.0228</b>		<b>966.8248</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4776</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3312	0.1917	2.8247	9.3700e-003	1.0507	7.2200e-003	1.0579	0.2787	6.6500e-003	0.2853		934.5564	934.5564	0.0209		935.0793
<b>Total</b>	<b>0.3312</b>	<b>0.1917</b>	<b>2.8247</b>	<b>9.3700e-003</b>	<b>1.0507</b>	<b>7.2200e-003</b>	<b>1.0579</b>	<b>0.2787</b>	<b>6.6500e-003</b>	<b>0.2853</b>		<b>934.5564</b>	<b>934.5564</b>	<b>0.0209</b>		<b>935.0793</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	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4776</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3312	0.1917	2.8247	9.3700e-003	1.0507	7.2200e-003	1.0579	0.2787	6.6500e-003	0.2853		934.5564	934.5564	0.0209		935.0793
<b>Total</b>	<b>0.3312</b>	<b>0.1917</b>	<b>2.8247</b>	<b>9.3700e-003</b>	<b>1.0507</b>	<b>7.2200e-003</b>	<b>1.0579</b>	<b>0.2787</b>	<b>6.6500e-003</b>	<b>0.2853</b>		<b>934.5564</b>	<b>934.5564</b>	<b>0.0209</b>		<b>935.0793</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
NaturalGas Unmitigated	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**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					
Industrial Park	1628.65	0.0176	0.1597	0.1341	9.6000e-004		0.0121	0.0121		0.0121	0.0121		191.6055	191.6055	3.6700e-003	3.5100e-003	192.7441
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
Unrefrigerated Warehouse-No Rail	1331.42	0.0144	0.1305	0.1097	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.6375	156.6375	3.0000e-003	2.8700e-003	157.5683
<b>Total</b>		<b>0.0319</b>	<b>0.2902</b>	<b>0.2438</b>	<b>1.7400e-003</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0221</b>	<b>0.0221</b>		<b>348.2430</b>	<b>348.2430</b>	<b>6.6700e-003</b>	<b>6.3800e-003</b>	<b>350.3124</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**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					
Industrial Park	1.62865	0.0176	0.1597	0.1341	9.6000e-004		0.0121	0.0121		0.0121	0.0121		191.6055	191.6055	3.6700e-003	3.5100e-003	192.7441
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
Unrefrigerated Warehouse-No Rail	1.33142	0.0144	0.1305	0.1097	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.6375	156.6375	3.0000e-003	2.8700e-003	157.5683
<b>Total</b>		<b>0.0319</b>	<b>0.2902</b>	<b>0.2438</b>	<b>1.7400e-003</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0221</b>	<b>0.0221</b>		<b>348.2430</b>	<b>348.2430</b>	<b>6.6700e-003</b>	<b>6.3800e-003</b>	<b>350.3124</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Unmitigated	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7800e-003	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
<b>Total</b>	<b>9.4838</b>	<b>9.6000e-004</b>	<b>0.1059</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>0.2274</b>	<b>0.2274</b>	<b>5.9000e-004</b>		<b>0.2423</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7800e-003	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
<b>Total</b>	<b>9.4838</b>	<b>9.6000e-004</b>	<b>0.1059</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>0.2274</b>	<b>0.2274</b>	<b>5.9000e-004</b>		<b>0.2423</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Summer

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

### 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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Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**Oakmont Mission and Ramona Industrial Park Reduced Alt**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	171.31	1000sqft	3.93	171,313.00	0
Unrefrigerated Warehouse-No Rail	239.39	1000sqft	5.50	239,393.00	0
Other Asphalt Surfaces	1.55	Acre	1.55	67,518.00	0
Parking Lot	627.00	1000sqft	14.39	626,995.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	10			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	0	<b>CH4 Intensity (lb/MW hr)</b>	0	<b>N2O Intensity (lb/MW hr)</b>	0

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

Project Characteristics - 100% renewable energy through SCE

Land Use - Alternative Scenario 2.

Construction Phase - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Off-road Equipment - Based on applicant provided information.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Demolition - Based on demolition plan for the project. Assumes 36,410 SF of building demo, 965,465 SF of asphalt, 76,330 SF of concrete, and 84,673 SF of landscaping.

Grading - Cut 139,305 cy

Fill 103,261 cy

Export: 36,042 cy

Architectural Coating - In accordance with SCAQMD Rule 1113.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - In accordance with SCAQMD Rule 1113.

Landscape Equipment - CalEEMod defaults.

Energy Use - In accordance with 2019 Title 24 standards.

Water And Wastewater - CalEEMod defaults.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - Adjusted engine tier per mitigation requirements.

Area Mitigation -

Energy Mitigation -

Water Mitigation - Water effiecent features and irrigation system.

Waste Mitigation -

Operational Off-Road Equipment - Calculated outside of CalEEMod.

Stationary Sources - Emergency Generators and Fire Pumps - NA



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Stationary Sources - Emergency Generators and Fire Pumps EF -

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblGrading	MaterialExported	0.00	36,042.00
tblLandUse	LandUseSquareFeet	627,000.00	626,995.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	124.00	0.00
tblOperationalOffRoadEquipment	OperHorsePower	100.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.44	0.00
tblOperationalOffRoadEquipment	OperLoadFactor	0.40	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	HaulingTripNumber	2,255.00	2,256.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,506.00
tblTripsAndVMT	VendorTripNumber	181.00	182.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	15.00	16.00
tblTripsAndVMT	WorkerTripNumber	93.00	94.00
tblVehicleTrips	ST_TR	2.49	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	0.73	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	6.83	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.0307	72.0936	37.3121	0.1394	18.2675	2.0667	20.3134	9.9840	1.9043	11.8663	0.0000	14,366.98 62	14,366.98 62	2.5259	0.0000	14,430.13 41
2022	4.4213	62.5552	35.3436	0.1384	11.3991	1.7051	13.1042	4.3115	1.5712	5.8827	0.0000	14,266.47 68	14,266.47 68	2.5156	0.0000	14,329.36 79
2023	114.8730	27.8976	33.4612	0.1150	6.3512	0.7505	7.1018	1.7108	0.7057	2.4165	0.0000	11,645.00 75	11,645.00 75	0.9809	0.0000	11,669.53 11
2024	114.8426	1.4284	4.3341	0.0117	1.0507	0.0681	1.1188	0.2787	0.0676	0.3462	0.0000	1,155.293 2	1,155.293 2	0.0353	0.0000	1,156.175 3
<b>Maximum</b>	<b>114.8730</b>	<b>72.0936</b>	<b>37.3121</b>	<b>0.1394</b>	<b>18.2675</b>	<b>2.0667</b>	<b>20.3134</b>	<b>9.9840</b>	<b>1.9043</b>	<b>11.8663</b>	<b>0.0000</b>	<b>14,366.98 62</b>	<b>14,366.98 62</b>	<b>2.5259</b>	<b>0.0000</b>	<b>14,430.13 41</b>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Energy	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
Mobile	0.0000	0.0000	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>9.5157</b>	<b>0.2912</b>	<b>0.3497</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>		<b>348.4704</b>	<b>348.4704</b>	<b>7.2600e-003</b>	<b>6.3800e-003</b>	<b>350.5547</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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Energy	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
Mobile	0.0000	0.0000	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>9.5157</b>	<b>0.2912</b>	<b>0.3497</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>	<b>0.0000</b>	<b>0.0224</b>	<b>0.0224</b>		<b>348.4704</b>	<b>348.4704</b>	<b>7.2600e-003</b>	<b>6.3800e-003</b>	<b>350.5547</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/4/2021	11/12/2021	5	30	
2	Site Preparation	Site Preparation	11/13/2021	12/10/2021	5	20	
3	Grading	Grading	12/11/2021	2/11/2022	5	45	
4	Building Construction	Building Construction	2/12/2022	10/20/2023	5	440	
5	Paving	Paving	10/21/2023	12/8/2023	5	35	
6	Architectural Coating	Architectural Coating	12/9/2023	1/26/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 15.94

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 616,059; Non-Residential Outdoor: 205,353; Striped Parking Area: 41,671 (Architectural Coating – sqft)

#### OffRoad Equipment

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	16.00	0.00	2,256.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,506.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	464.00	182.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	94.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**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					16.2675	0.0000	16.2675	2.4631	0.0000	2.4631			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>16.2675</b>	<b>1.5513</b>	<b>17.8189</b>	<b>2.4631</b>	<b>1.4411</b>	<b>3.9041</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
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
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6350</b>	<b>19.2989</b>	<b>4.8649</b>	<b>0.0582</b>	<b>1.4929</b>	<b>0.0612</b>	<b>1.5541</b>	<b>0.4075</b>	<b>0.0585</b>	<b>0.4660</b>		<b>6,288.4557</b>	<b>6,288.4557</b>	<b>0.4382</b>		<b>6,299.4105</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	lb/day										lb/day					
Fugitive Dust					7.3204	0.0000	7.3204	1.1084	0.0000	1.1084			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>7.3204</b>	<b>1.5513</b>	<b>8.8717</b>	<b>1.1084</b>	<b>1.4411</b>	<b>2.5495</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.5612	19.2510	4.3232	0.0566	1.3140	0.0599	1.3739	0.3601	0.0573	0.4174		6,122.7488	6,122.7488	0.4338		6,133.5926
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
Worker	0.0738	0.0480	0.5417	1.6600e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2100e-003	0.0486		165.7069	165.7069	4.4400e-003		165.8179
<b>Total</b>	<b>0.6350</b>	<b>19.2989</b>	<b>4.8649</b>	<b>0.0582</b>	<b>1.4929</b>	<b>0.0612</b>	<b>1.5541</b>	<b>0.4075</b>	<b>0.0585</b>	<b>0.4660</b>		<b>6,288.4557</b>	<b>6,288.4557</b>	<b>0.4382</b>		<b>6,299.4105</b>

**3.3 Site Preparation - 2021**

**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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0830</b>	<b>0.0539</b>	<b>0.6094</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>186.4202</b>	<b>186.4202</b>	<b>5.0000e-003</b>		<b>186.5451</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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>8.1298</b>	<b>2.0445</b>	<b>10.1743</b>	<b>4.4688</b>	<b>1.8809</b>	<b>6.3497</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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
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
Worker	0.0830	0.0539	0.6094	1.8700e-003	0.2012	1.4800e-003	0.2027	0.0534	1.3600e-003	0.0547		186.4202	186.4202	5.0000e-003		186.5451
<b>Total</b>	<b>0.0830</b>	<b>0.0539</b>	<b>0.6094</b>	<b>1.8700e-003</b>	<b>0.2012</b>	<b>1.4800e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.3600e-003</b>	<b>0.0547</b>		<b>186.4202</b>	<b>186.4202</b>	<b>5.0000e-003</b>		<b>186.5451</b>

**3.4 Grading - 2021**

**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					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>8.7639</b>	<b>1.9853</b>	<b>10.7493</b>	<b>3.6102</b>	<b>1.8265</b>	<b>5.4367</b>		<b>6,007.0434</b>	<b>6,007.0434</b>	<b>1.9428</b>		<b>6,055.6134</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8395</b>	<b>25.6938</b>	<b>6.4337</b>	<b>0.0774</b>	<b>4.6210</b>	<b>0.0814</b>	<b>4.7024</b>	<b>1.1887</b>	<b>0.0778</b>	<b>1.2665</b>		<b>8,359.942 7</b>	<b>8,359.942 7</b>	<b>0.5831</b>		<b>8,374.520 7</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	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
<b>Total</b>	<b>4.1912</b>	<b>46.3998</b>	<b>30.8785</b>	<b>0.0620</b>	<b>3.9438</b>	<b>1.9853</b>	<b>5.9291</b>	<b>1.6246</b>	<b>1.8265</b>	<b>3.4511</b>	<b>0.0000</b>	<b>6,007.043 4</b>	<b>6,007.043 4</b>	<b>1.9428</b>		<b>6,055.613 4</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.7473	25.6338	5.7566	0.0753	4.3975	0.0797	4.4772	1.1294	0.0763	1.2057		8,152.809 2	8,152.809 2	0.5776		8,167.248 3
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
Worker	0.0922	0.0599	0.6771	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.1336	207.1336	5.5500e-003		207.2724
<b>Total</b>	<b>0.8395</b>	<b>25.6938</b>	<b>6.4337</b>	<b>0.0774</b>	<b>4.6210</b>	<b>0.0814</b>	<b>4.7024</b>	<b>1.1887</b>	<b>0.0778</b>	<b>1.2665</b>		<b>8,359.942 7</b>	<b>8,359.942 7</b>	<b>0.5831</b>		<b>8,374.520 7</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.7639	0.0000	8.7639	3.6102	0.0000	3.6102			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.410 5	6,011.410 5	1.9442		6,060.015 8
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>8.7639</b>	<b>1.6349</b>	<b>10.3988</b>	<b>3.6102</b>	<b>1.5041</b>	<b>5.1143</b>		<b>6,011.410 5</b>	<b>6,011.410 5</b>	<b>1.9442</b>		<b>6,060.015 8</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.4 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
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
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.7965</b>	<b>23.7117</b>	<b>6.3021</b>	<b>0.0763</b>	<b>2.6352</b>	<b>0.0702</b>	<b>2.7054</b>	<b>0.7013</b>	<b>0.0671</b>	<b>0.7684</b>		<b>8,255.0663</b>	<b>8,255.0663</b>	<b>0.5714</b>		<b>8,269.3520</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	lb/day										lb/day					
Fugitive Dust					3.9438	0.0000	3.9438	1.6246	0.0000	1.6246			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>3.9438</b>	<b>1.6349</b>	<b>5.5787</b>	<b>1.6246</b>	<b>1.5041</b>	<b>3.1287</b>	<b>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.4 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.7097	23.6576	5.6771	0.0743	2.4116	0.0686	2.4802	0.6420	0.0656	0.7076		8,055.3590	8,055.3590	0.5664		8,069.5194
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
Worker	0.0868	0.0541	0.6250	2.0000e-003	0.2236	1.6000e-003	0.2252	0.0593	1.4700e-003	0.0608		199.7073	199.7073	5.0100e-003		199.8326
<b>Total</b>	<b>0.7965</b>	<b>23.7117</b>	<b>6.3021</b>	<b>0.0763</b>	<b>2.6352</b>	<b>0.0702</b>	<b>2.7054</b>	<b>0.7013</b>	<b>0.0671</b>	<b>0.7684</b>		<b>8,255.0663</b>	<b>8,255.0663</b>	<b>0.5714</b>		<b>8,269.3520</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5001	16.4112	4.3588	0.0447	1.1648	0.0313	1.1961	0.3353	0.0299	0.3653		4,771.9349	4,771.9349	0.3099		4,779.6826
Worker	2.0125	1.2558	14.4988	0.0465	5.1864	0.0371	5.2235	1.3755	0.0342	1.4096		4,633.2095	4,633.2095	0.1163		4,636.1170
<b>Total</b>	<b>2.5126</b>	<b>17.6670</b>	<b>18.8575</b>	<b>0.0912</b>	<b>6.3513</b>	<b>0.0684</b>	<b>6.4196</b>	<b>1.7108</b>	<b>0.0641</b>	<b>1.7749</b>		<b>9,405.1443</b>	<b>9,405.1443</b>	<b>0.4262</b>		<b>9,415.7996</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	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.5 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
Vendor	0.5001	16.4112	4.3588	0.0447	1.1648	0.0313	1.1961	0.3353	0.0299	0.3653		4,771.9349	4,771.9349	0.3099		4,779.6826
Worker	2.0125	1.2558	14.4988	0.0465	5.1864	0.0371	5.2235	1.3755	0.0342	1.4096		4,633.2095	4,633.2095	0.1163		4,636.1170
<b>Total</b>	<b>2.5126</b>	<b>17.6670</b>	<b>18.8575</b>	<b>0.0912</b>	<b>6.3513</b>	<b>0.0684</b>	<b>6.4196</b>	<b>1.7108</b>	<b>0.0641</b>	<b>1.7749</b>		<b>9,405.1443</b>	<b>9,405.1443</b>	<b>0.4262</b>		<b>9,415.7996</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	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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**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	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
Vendor	0.3733	12.3769	3.8542	0.0433	1.1648	0.0147	1.1795	0.3353	0.0140	0.3494		4,629.382 2	4,629.382 2	0.2683		4,636.090 0
Worker	1.8980	1.1358	13.3629	0.0447	5.1864	0.0361	5.2226	1.3755	0.0333	1.4087		4,460.415 4	4,460.415 4	0.1048		4,463.035 0
<b>Total</b>	<b>2.2713</b>	<b>13.5127</b>	<b>17.2172</b>	<b>0.0880</b>	<b>6.3512</b>	<b>0.0508</b>	<b>6.4021</b>	<b>1.7108</b>	<b>0.0473</b>	<b>1.7581</b>		<b>9,089.797 6</b>	<b>9,089.797 6</b>	<b>0.3731</b>		<b>9,099.125 1</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	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
<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>2,555.209 9</b>	<b>2,555.209 9</b>	<b>0.6079</b>		<b>2,570.406 1</b>

## Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**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	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
Vendor	0.3733	12.3769	3.8542	0.0433	1.1648	0.0147	1.1795	0.3353	0.0140	0.3494		4,629.382 2	4,629.382 2	0.2683		4,636.090 0
Worker	1.8980	1.1358	13.3629	0.0447	5.1864	0.0361	5.2226	1.3755	0.0333	1.4087		4,460.415 4	4,460.415 4	0.1048		4,463.035 0
<b>Total</b>	<b>2.2713</b>	<b>13.5127</b>	<b>17.2172</b>	<b>0.0880</b>	<b>6.3512</b>	<b>0.0508</b>	<b>6.4021</b>	<b>1.7108</b>	<b>0.0473</b>	<b>1.7581</b>		<b>9,089.797 6</b>	<b>9,089.797 6</b>	<b>0.3731</b>		<b>9,099.125 1</b>

**3.6 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		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>2,207.584 1</b>	<b>2,207.584 1</b>	<b>0.7140</b>		<b>2,225.433 6</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.6 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	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
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
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0655</b>	<b>0.0392</b>	<b>0.4608</b>	<b>1.5400e-003</b>	<b>0.1788</b>	<b>1.2500e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1500e-003</b>	<b>0.0486</b>		<b>153.8074</b>	<b>153.8074</b>	<b>3.6100e-003</b>		<b>153.8978</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	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	1.1932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.2260</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.6 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	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
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
Worker	0.0655	0.0392	0.4608	1.5400e-003	0.1788	1.2500e-003	0.1801	0.0474	1.1500e-003	0.0486		153.8074	153.8074	3.6100e-003		153.8978
<b>Total</b>	<b>0.0655</b>	<b>0.0392</b>	<b>0.4608</b>	<b>1.5400e-003</b>	<b>0.1788</b>	<b>1.2500e-003</b>	<b>0.1801</b>	<b>0.0474</b>	<b>1.1500e-003</b>	<b>0.0486</b>		<b>153.8074</b>	<b>153.8074</b>	<b>3.6100e-003</b>		<b>153.8978</b>

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4885</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3845	0.2301	2.7072	9.0600e-003	1.0507	7.3200e-003	1.0580	0.2787	6.7400e-003	0.2854		903.6186	903.6186	0.0212		904.1493
<b>Total</b>	<b>0.3845</b>	<b>0.2301</b>	<b>2.7072</b>	<b>9.0600e-003</b>	<b>1.0507</b>	<b>7.3200e-003</b>	<b>1.0580</b>	<b>0.2787</b>	<b>6.7400e-003</b>	<b>0.2854</b>		<b>903.6186</b>	<b>903.6186</b>	<b>0.0212</b>		<b>904.1493</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	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4885</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3845	0.2301	2.7072	9.0600e-003	1.0507	7.3200e-003	1.0580	0.2787	6.7400e-003	0.2854		903.6186	903.6186	0.0212		904.1493
<b>Total</b>	<b>0.3845</b>	<b>0.2301</b>	<b>2.7072</b>	<b>9.0600e-003</b>	<b>1.0507</b>	<b>7.3200e-003</b>	<b>1.0580</b>	<b>0.2787</b>	<b>6.7400e-003</b>	<b>0.2854</b>		<b>903.6186</b>	<b>903.6186</b>	<b>0.0212</b>		<b>904.1493</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4776</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>



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3650	0.2096	2.5240	8.7600e-003	1.0507	7.2200e-003	1.0579	0.2787	6.6500e-003	0.2853		873.8452	873.8452	0.0194		874.3311
<b>Total</b>	<b>0.3650</b>	<b>0.2096</b>	<b>2.5240</b>	<b>8.7600e-003</b>	<b>1.0507</b>	<b>7.2200e-003</b>	<b>1.0579</b>	<b>0.2787</b>	<b>6.6500e-003</b>	<b>0.2853</b>		<b>873.8452</b>	<b>873.8452</b>	<b>0.0194</b>		<b>874.3311</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	lb/day										lb/day					
Archit. Coating	114.2969					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>114.4776</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>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	0.3650	0.2096	2.5240	8.7600e-003	1.0507	7.2200e-003	1.0579	0.2787	6.6500e-003	0.2853		873.8452	873.8452	0.0194		874.3311
<b>Total</b>	<b>0.3650</b>	<b>0.2096</b>	<b>2.5240</b>	<b>8.7600e-003</b>	<b>1.0507</b>	<b>7.2200e-003</b>	<b>1.0579</b>	<b>0.2787</b>	<b>6.6500e-003</b>	<b>0.2853</b>		<b>873.8452</b>	<b>873.8452</b>	<b>0.0194</b>		<b>874.3311</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Other Asphalt Surfaces	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Parking Lot	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845
Unrefrigerated Warehouse-No Rail	0.550809	0.042355	0.203399	0.115606	0.014562	0.005806	0.021810	0.035336	0.002134	0.001736	0.004891	0.000712	0.000845

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124
NaturalGas Unmitigated	0.0319	0.2902	0.2438	1.7400e-003		0.0221	0.0221		0.0221	0.0221		348.2430	348.2430	6.6700e-003	6.3800e-003	350.3124

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**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					
Industrial Park	1628.65	0.0176	0.1597	0.1341	9.6000e-004		0.0121	0.0121		0.0121	0.0121		191.6055	191.6055	3.6700e-003	3.5100e-003	192.7441
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
Unrefrigerated Warehouse-No Rail	1331.42	0.0144	0.1305	0.1097	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.6375	156.6375	3.0000e-003	2.8700e-003	157.5683
<b>Total</b>		<b>0.0319</b>	<b>0.2902</b>	<b>0.2438</b>	<b>1.7400e-003</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0221</b>	<b>0.0221</b>		<b>348.2430</b>	<b>348.2430</b>	<b>6.6700e-003</b>	<b>6.3800e-003</b>	<b>350.3124</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**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					
Industrial Park	1.62865	0.0176	0.1597	0.1341	9.6000e-004		0.0121	0.0121		0.0121	0.0121		191.6055	191.6055	3.6700e-003	3.5100e-003	192.7441
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
Unrefrigerated Warehouse-No Rail	1.33142	0.0144	0.1305	0.1097	7.8000e-004		9.9200e-003	9.9200e-003		9.9200e-003	9.9200e-003		156.6375	156.6375	3.0000e-003	2.8700e-003	157.5683
<b>Total</b>		<b>0.0319</b>	<b>0.2902</b>	<b>0.2438</b>	<b>1.7400e-003</b>		<b>0.0221</b>	<b>0.0221</b>		<b>0.0221</b>	<b>0.0221</b>		<b>348.2430</b>	<b>348.2430</b>	<b>6.6700e-003</b>	<b>6.3800e-003</b>	<b>350.3124</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
Unmitigated	9.4838	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7800e-003	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
<b>Total</b>	<b>9.4838</b>	<b>9.6000e-004</b>	<b>0.1059</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>0.2274</b>	<b>0.2274</b>	<b>5.9000e-004</b>		<b>0.2423</b>

Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.3780					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7800e-003	9.6000e-004	0.1059	1.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004		0.2274	0.2274	5.9000e-004		0.2423
<b>Total</b>	<b>9.4838</b>	<b>9.6000e-004</b>	<b>0.1059</b>	<b>1.0000e-005</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>3.8000e-004</b>	<b>3.8000e-004</b>		<b>0.2274</b>	<b>0.2274</b>	<b>5.9000e-004</b>		<b>0.2423</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**



Oakmont Mission and Ramona Industrial Park Reduced Alt - South Coast AQMD Air District, Winter

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Tractors	0	0.00	0	0	0.00	Diesel
Rough Terrain Forklifts	0	0.00	0	0	0.00	Diesel

**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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2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	386	15,440	140,890	5,635,600
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	386	15,440	140,890	5,635,600
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	386	140,890
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450

2023 Operation Mobile Source Emissions Summary - Summer Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.58	60.76	5.11	0.38	0.76	0.72	40,688.09	0.03	6.40	42,594.65
0.64	1.14	22.54	0.06	0.03	0.03	6,510.82	0.12	0.12	6,548.62

Subtotal 1.22 61.90 27.64 0.45 0.79 0.75 47,198.91 0.15 6.51 49,143.27

PM10	PM2.5
Paved Road - PM only	
57.19	14.04
6.66	1.63
63.85	15.67

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.29	0.26	2.60	0.00	0.00	0.00	74.67	0.06	0.03	86.40
0.29	2.22	2.60	0.00	0.00	0.00	74.67	0.06	0.03	86.40

Subtotal

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.34	6.37	5.61	0.01	0.00	0.00	1,188.61	0.02	0.19	1,244.67
0.34	6.37	5.61	0.01	0.00	0.00	1,188.61	0.02	0.19	1,244.67

Subtotal

**TOTAL 1.84 70.48 35.85 0.46 64.64 16.43 48,462.19 0.23 6.73 50,474.34**

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	386	15,440	140,890	5,635,600
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT	40	386	15,440	140,890	5,635,600
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT	386	140,890
Employees/Customers	LDA, LDT1, LDT2, and MCY Compi	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450



Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Summer ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	7.350489433	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.068579745	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0170</b>	<b>5.7059</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.009243022	0	0.179408691	0.11588855	0.210928284	0.460274157	0.556108323				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.035559694	0.062239443				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.03033325	0	0.328873506	0.302917017	0.815237231	1.224239331	1.659338091				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.035351837	0.062079447				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.017765237	0	0.273326358	0.169605226	0.47103425	0.806132373	0.949748386				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.035376402	0.062098356				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.155587816	0	1.623110301	1.273119231	1.950043844	4.220068754	6.271268488				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0289</b>	<b>0.0000</b>	<b>0.2150</b>	<b>0.1451</b>	<b>0.3113</b>	<b>0.5986</b>	<b>0.7393</b>	<b>0.151610</b>	<b>0.193001</b>	<b>1.0161</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Summer TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	8.36797269	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.07807282	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0193</b>	<b>6.4957</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	-	-	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.013483542	0	0.196429398	0.11588855	0.210928284	0.460274157	0.556108323				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.035559694	0.062239443				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.044252254	0	0.360074392	0.302917017	0.815237231	1.224239331	1.659338091				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.035351837	0.062079447				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.025917854	0	0.299257588	0.169605226	0.47103425	0.806132373	0.949748386				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.035376402	0.062098356				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.653776648	0	1.766255281	1.273119231	1.950043844	4.220068754	6.271268488				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0383</b>	<b>0.0000</b>	<b>0.2353</b>	<b>0.1451</b>	<b>0.3113</b>	<b>0.5986</b>	<b>0.7393</b>	<b>0.151610</b>	<b>0.193001</b>	<b>1.0364</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Summer NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	2.016952537	79.63326373	2.358047716
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.98992962	4.505287714	2.122578025
						<b>HHDT and MHDT Composite</b>		<b>1.7850</b>	<b>62.6661</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.031363247	0	0.167355416
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.054832869	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.099969929	0	0.258249196
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.024748566	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.071775813	0	0.267865273
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.037463341	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.985627014	0	0.247608169
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0511</b>	<b>0.0000</b>	<b>0.1923</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.174992017	100.7720376	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.064399562	2.326613421	0
<b>HHDT and MHDT Composite</b>								<b>0.1500</b>	<b>78.5387</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.757488307	0	1.789735648
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.552873213	0	1.957289269
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	1.099293987	0	2.259341952
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	20.4862467	0	7.966186142
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>1.0145</b>	<b>0.0000</b>	<b>1.9441</b>



Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Summer SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.012155	0.156222976	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008337425	0.007097337	0
							<b>HHDT and MHDT Composite</b>	<b>0.0113</b>	<b>0.1225</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002801559	0	0.000525562
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.003248251	0	0.000626096
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.00342918	0	0.000673376
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002086329	0	0.000583772
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0029</b>	<b>0.0000</b>	<b>0.0006</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.030378068	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.003601205	0	0.012000003	0.130340037	
				<b>HHDT and MHDT Composite</b>				<b>0.0222</b>	<b>0.0243</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Summer PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.029063926	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.003445419	0	0.003000001	0.055860016	
				<b>HHDT and MHDT Composite</b>				<b>0.0213</b>	<b>0.0233</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	1286.58316	16535.89917	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	882.5002439	751.2394033	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>12971.0279</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	283.105559	0	53.10956815
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	328.2450644	0	63.26882403
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	346.5284839	0	68.04661604
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	210.8294983	0	58.99180553
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>293.0922</b>	<b>0.0000</b>	<b>55.8005</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Summer N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.202232956	2.599213074	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.138716749	0.118084373	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.0389</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00395037	0	0.024436764
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.007835671	0	0.028362076
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006110503	0	0.030808844
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.059645645	0	0.014770842
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0253</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Summer CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.341411196	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.003185352	0
<b>HHDT and MHDT Composite</b>								<b>0.0008</b>	<b>0.2650</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002518867	0	0.041761609
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.006958766	0	0.065441229
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.004404422	0	0.059144299
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.321187334	0	0.216071214
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0485</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Summer

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858



'SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
2.016953	79.63326	2.358048	0.025071	0.029064	0	0.008916	0.026212	0.026205
0.98993	4.505288	2.122578	0.008211	0.003445	0	0.003	0.05586	0.008583
0.031363	0	0.167355	0.00125	0	0.001681	0.002	0.01575	0.001359
0.054833	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.09997	0	0.258249	0.001831	0	0.002448	0.002	0.01575	0.001991
1.024749	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.071776	0	0.267865	0.001322	0	0.001747	0.002	0.01575	0.001438
0.037463	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.207658	0.038205	0.504832	0.001165	0	0.000414	0.002	0.03276	0.001267
2.429341	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.168383	0.038441	0.514392	0.000951	0	0.000312	0.002	0.03822	0.001035
1.948254	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
0.985627	0	0.247608	0.001735	0	0.002759	0.001	0.00504	0.001855
0.093965	0	0.340219	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05038	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.372453	0	0.316602	0.00121	0	0.000322	0.003	0.05586	0.001316
4.113339	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.402273	0.064861	0.302697	0.000821	0	0.00026	0.003	0.05586	0.000893
1.444658	11.46883	2.200785	0.013782	0.003484	0	0.003	0.05586	0.014405
0.381909	0.92602	0.501637	0.000987	0	0.000408	0.002	0.3192	0.001073
5.801337	40.89507	1.044584	0.035536	0.036452	0	0.003	0.3192	0.037143
0.090072	0	0.434008	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.47348	0	0	0.003129	0	0	0.008203	0.030298	0.00327

PM10_IDLE	PM10_STR	PM10_PMI	PM10_PMI	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0.030378	0	0.035662	0.061161	1286.583	16535.9	0	0.000916	0.341411
0.003601	0	0.012	0.13034	882.5002	751.2394	0	0.000354	0.003185
0	0.001828	0.008	0.03675	283.1056	0	53.10957	0.002519	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	328.2451	0	63.26882	0.006959	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	346.5285	0	68.04662	0.004404	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.7036	121.0254	18.75448	0.007885	0.122033
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3957	139.7034	21.30092	0.004501	0.124627
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	210.8295	0	58.99181	0.321187	0
0	0.002005	0.008	0.03675	427.971	0	85.60157	0.005768	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.932	0	25.62504	0.013476	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000283	0.012	0.13034	1656.612	376.0152	25.79971	0.011583	0.202795
0.003641	0	0.012	0.13034	1123.705	2627.498	0	0.000522	0.042801
0	0.000444	0.008	0.7448	861.1788	2585.835	44.0491	0.011849	2.454396
0.038101	0	0.012	0.7448	1195.349	3693.852	0	0.004695	0.012753
0	0.000562	0.009076	0.100248	1207.327	0	46.34325	0.003191	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0

CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
0	0.202233	2.599213	0	0.019713	7.350489	0	0	0
0	0.138717	0.118084	0	0.007631	0.06858	0	0	0
0.041762	0.00395	0	0.024437	0.009243	0	0.179409	0.115889	0.210928
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.065441	0.007836	0	0.028362	0.030333	0	0.328874	0.302917	0.815237
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.059144	0.006111	0	0.030809	0.017765	0	0.273326	0.169605	0.471034
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.025291	0.012532	0.003176	0.040232	0.038596	0.437419	0.126086	0.180702	1.032955
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.024	0.011329	0.003202	0.040855	0.019688	0.440756	0.11743	0.14739	0.767394
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.216071	0.059646	0	0.014771	2.155588	0	1.62311	1.273119	1.950044
0.073328	0.007708	0	0.034647	0.023868	0	0.357509	0.197616	0.518065
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.03087	0.023642	0	0.034915	0.058619	0	0.126838	0.114613	2.201204
0	0.148356	0	0	0.079676	0	0	0	0
0.028782	0.020601	0.005873	0.025477	0.054869	0.743285	0.146737	0.036692	0.385123
0	0.176631	0.413006	0	0.011231	0.921502	0	0	0
0.050609	0.022353	0.090986	0.048236	0.058299	10.63405	0.289477	0.081171	0.415368
0	0.187892	0.580622	0	0.101084	0.274567	0	0	0
0.041874	0.01026	0	0.052507	0.009522	0	0.162877	0.030375	0.093159
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

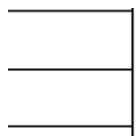
ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIUR
0	0	0.022441	8.367973	0	0	0	0	0
0	0	0.008687	0.078073	0	0	0	0	0
0.460274	0.556108	0.013484	0	0.196429	0.115889	0.210928	0.460274	0.556108
0	0	0.013645	0	0	0	0	0	0
0.03556	0.062239	0	0	0	0.004888	0	0.03556	0.062239
1.224239	1.659338	0.044252	0	0.360074	0.302917	0.815237	1.224239	1.659338
0	0	0.221784	0	0	0	0	0	0
0.035352	0.062079	0	0	0	0.004888	0	0.035352	0.062079
0.806132	0.949748	0.025918	0	0.299258	0.169605	0.471034	0.806132	0.949748
0	0	0.016231	0	0	0	0	0	0
0.035376	0.062098	0	0	0	0.004888	0	0.035376	0.062098
0.089508	0.158747	0.05632	0.638281	0.138048	0.180702	1.032955	0.089508	0.158747
0	0	0.101557	0.124954	0	0	0	0	0
0.070861	0.12006	0.028728	0.64315	0.128571	0.14739	0.767394	0.070861	0.12006
0	0	0.087288	0.124954	0	0	0	0	0
4.220069	6.271268	2.653777	0	1.766255	1.273119	1.950044	4.220069	6.271268
0.974596	1.090744	0.034765	0	0.391423	0.197616	0.518065	0.974596	1.090744
0	0	0.012613	0	0	0	0	0	0
0.035292	0.062033	0	0	0	0.004888	0	0.035292	0.062033
0.131632	0.310615	0.085537	0	0.138871	0.114613	2.201204	0.131632	0.310615
0	0	0.090706	0	0	0	0	0	0
0.063878	0.131201	0.080064	1.0846	0.160659	0.036692	0.385123	0.063878	0.131201
0	0	0.012786	1.04906	0	0	0	0	0
0.038974	0.073738	0.085069	15.51719	0.316941	0.081171	0.415368	0.038974	0.073738
0	0	0.115076	0.312573	0	0	0	0	0
0.017071	0.024449	0.013894	0	0.17833	0.030375	0.093159	0.017071	0.024449
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNEX	SOx_IDLEX	SOx_STREX
0.174992	100.772	0	0.012155	0.156223	0
0.0644	2.326613	0	0.008337	0.007097	0
0.757488	0	1.789736	0.002802	0	0.000526
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.552873	0	1.957289	0.003248	0	0.000626
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
1.099294	0	2.259342	0.003429	0	0.000673
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
1.021401	3.746224	1.669266	0.007904	0.001198	0.000186
0.608005	0.909745	0	0.004519	0.00128	0
0.516357	3.761574	1.55412	0.009068	0.001382	0.000211
0.512323	0.909745	0	0.004911	0.002052	0
20.48625	0	7.966186	0.002086	0	0.000584
1.284764	0	2.68249	0.004235	0	0.000847
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.752444	0	2.691054	0.016684	0	0.000254
0.344783	0	0	0.008923	0	0
1.349547	5.756642	2.975851	0.016394	0.003721	0.000255
0.103855	13.74174	0	0.010616	0.024823	0
1.300616	82.19556	5.772454	0.008522	0.025589	0.000436
0.300935	6.449279	0	0.011293	0.034898	0
0.168121	0	3.285226	0.011947	0	0.000459
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	386	140,890
Employees/Customers	Composite	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450

2023 Operation Mobile Source Emissions Summary - Winter Daily Emissions

Emissions - Daily (Pounds/Day)

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Running Exhaust, Tire Wear, and Break Wear									
0.58	63.57	5.11	0.38	0.76	0.72	40,688.09	0.03	6.40	42,594.65
0.61	1.20	18.05	0.06	0.03	0.03	5,874.04	0.11	0.12	5,912.71
<i>Subtotal</i>									
1.19	64.78	23.16	0.44	0.79	0.75	46,562.13	0.14	6.52	48,507.36

PM10	PM2.5
Paved Road - PM only	
57.19	14.04
6.66	1.63
<i>Subtotal</i>	
63.85	15.67

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap									
0.00	1.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.34	0.27	3.06	0.00	0.00	0.00	75.58	0.08	0.04	88.02
<i>Subtotal</i>									
0.34	2.23	3.06	0.00	0.00	0.00	75.58	0.08	0.04	88.02

ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e
Idling									
0.29	6.93	5.83	0.01	0.01	0.01	1,215.90	0.01	0.19	1,273.20
<i>Subtotal</i>									
0.29	6.93	5.83	0.01	0.01	0.01	1,215.90	0.01	0.19	1,273.20
<b>TOTAL</b>									
1.82	73.94	32.05	0.45	64.64	16.43	47,853.62	0.23	6.74	49,868.58



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	386	140,890
Employees/Customers	Composite	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450



Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Winter ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	6.373724268	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.061927634	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0170</b>	<b>4.9482</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	-	-	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.007921213	0	0.211611905	0.108937111	0.240289221	0.204997904	0.27223789				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.004750887	0.02189408				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.026212023	0	0.389602521	0.281197384	0.956543697	0.529711406	0.836502499				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.004771171	0.021871518				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.015279981	0	0.323057554	0.158378106	0.549237153	0.360771773	0.45898209				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.004768773	0.021874185				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.175374415	0	1.823025568	1.106176081	2.234300385	1.415071738	3.402902263				
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0273</b>	<b>0.0000</b>	<b>0.2531</b>	<b>0.1353</b>	<b>0.3591</b>	<b>0.2622</b>	<b>0.3647</b>	<b>0.064104</b>	<b>0.096855</b>	<b>0.9085</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Winter TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	7.255999903	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.070499897	0	0	0	0	0	0	0	0	0
				<b>HHDT and MHDT Composite</b>				<b>0.0193</b>	<b>5.6332</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.011555618	0	0.231687758	0.108937111	0.240289221	0.204997904	0.27223789	0	0	0	0
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.004750887	0.02189408	0	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.038240687	0	0.426564885	0.281197384	0.956543697	0.529711406	0.836502499	0	0	0	0
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.004771171	0.021871518	0	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.022292444	0	0.353706916	0.158378106	0.549237153	0.360771773	0.45898209	0	0	0	0
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.004768773	0.021874185	0	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.676529475	0	1.983766978	1.106176081	2.234300385	1.415071738	3.402902263	0	0	0	0
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0360</b>	<b>0.0000</b>	<b>0.2771</b>	<b>0.1353</b>	<b>0.3591</b>	<b>0.2622</b>	<b>0.3647</b>	<b>0.064104</b>	<b>0.096855</b>	<b>0.9324</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Winter NOx**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	2.110852682	89.12408279	2.358047716
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	1.033954425	4.765382917	2.122578025
						<b>HHDT and MHDT Composite</b>		<b>1.8676</b>	<b>70.0722</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.032682406	0	0.177209761
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.057419122	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.105501891	0	0.27376048
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.072083124	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.075212585	0	0.283678877
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.039204158	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	1.120070443	0	0.26220657
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0542</b>	<b>0.0000</b>	<b>0.2037</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.174992017	104.011174	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.064399562	2.453094704	0
							<b>HHDT and MHDT Composite</b>	<b>0.1500</b>	<b>81.0749</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.582849669	0	2.116678649
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.219609302	0	2.323323033
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.852969318	0	2.685365341
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	19.43969891	0	8.455655535
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.8125</b>	<b>0.0000</b>	<b>2.2893</b>

Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Winter SO2

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX (g/mile)	SO2_IDLEX (g/vehicle/day)	SO2_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.012155	0.160943891	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008337425	0.007199608	0
						<b>HHDT and MHDT Composite</b>		<b>0.0113</b>	<b>0.1262</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002508594	0	0.00053176
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.002948065	0	0.000633855
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003137935	0	0.000681711
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002070584	0	0.000598025
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0026</b>	<b>0.0000</b>	<b>0.0006</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.040062049	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.005093908	0	0.012000003	0.130340037	
				<b>HHDT and MHDT Composite</b>				<b>0.0222</b>	<b>0.0322</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>



Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Winter PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.038328982	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.004873547	0	0.003000001	0.055860016	
				<b>HHDT and MHDT Composite</b>				<b>0.0213</b>	<b>0.0308</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
				<b>LDA, LDT1, LDT2, and MCY Composite</b>				<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	1286.58316	17035.59883	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	882.5002439	762.0645938	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>13360.3182</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	253.5005578	0	53.7358888
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	297.9103621	0	64.05285424
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	317.0973222	0	68.8888202
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	209.238411	0	60.43210255
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>264.4268</b>	<b>0.0000</b>	<b>56.4801</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Winter N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.202232956	2.677758901	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.138716749	0.119785942	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.1001</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.004051756	0	0.025508211
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.008099841	0	0.029597896
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006290081	0	0.032141715
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.06526829	0	0.015076073
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0054</b>	<b>0.0000</b>	<b>0.0264</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Winter CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	DSL	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.296042984	0
SAN BERNARDINO	2023	MHDT	DSL	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.002876378	0
<b>HHDT and MHDT Composite</b>								<b>0.0008</b>	<b>0.2298</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002141354	0	0.048767568
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00598937	0	0.07696557
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.00376297	0	0.069231391
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.322937288	0	0.241622575
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0052</b>	<b>0.0000</b>	<b>0.0566</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Winter

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	GAS	7.80192	902.9373	156.1008
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	NG	1180.525	48153.57	4604.047
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	GAS	2406.141	152847.6	48142.06
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858

'SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
3.988944	0	0.636898	0.00161	0	0.001152	0.005	0.02646	0.001751
2.110853	89.12408	2.358048	0.025071	0.038329	0	0.008916	0.026212	0.026205
3.174667	24.31563	0	0.005485	0.045923	0	0.009	0.02646	0.005733
0.032682	0	0.17721	0.00125	0	0.001681	0.002	0.01575	0.001359
0.057419	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.105502	0	0.27376	0.001831	0	0.002448	0.002	0.01575	0.001991
1.072083	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.075213	0	0.283679	0.001322	0	0.001747	0.002	0.01575	0.001438
0.039204	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.231511	0.038205	0.521758	0.001165	0	0.000414	0.002	0.03276	0.001267
2.537162	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.187707	0.038441	0.531166	0.000951	0	0.000312	0.002	0.03822	0.001035
2.034532	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
1.12007	0	0.262207	0.001735	0	0.002759	0.001	0.00504	0.001855
0.098455	0	0.360433	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05276	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.417974	0	0.328568	0.00121	0	0.000322	0.003	0.05586	0.001316
4.305145	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.346313	0.084877	0.353957	0.000933	0	0.000413	0.003	0.05586	0.001015
1.033954	4.765383	2.122578	0.008211	0.004874	0	0.003	0.05586	0.008583
0.451194	0.064861	0.313929	0.000821	0	0.00026	0.003	0.05586	0.000893
1.509539	12.90837	2.200785	0.013782	0.004524	0	0.003	0.05586	0.014405
0.431763	0.92602	0.541582	0.000987	0	0.000408	0.002	0.3192	0.001073
6.086169	39.06903	1.044584	0.035536	0.052334	0	0.003	0.3192	0.037143
0.101001	0	0.455166	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.473485	0	0	0.003129	0	0	0.008203	0.030298	0.00327

PM10_IDLE	PM10_STR	PM10_PM1	PM10_PM10	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0	0.001253	0.02	0.06174	1951.59	0	46.61148	0.114998	0
0.040062	0	0.035662	0.061161	1286.583	17035.6	0	0.000916	0.296043
0.047999	0	0.036	0.06174	3500.822	4163.77	0	5.042156	1.220664
0	0.001828	0.008	0.03675	253.5006	0	53.73589	0.002141	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	297.9104	0	64.05285	0.005989	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	317.0973	0	68.88882	0.003763	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.6508	121.0254	18.90754	0.007639	0.12171
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3743	139.7034	21.44138	0.00439	0.124289
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	209.2384	0	60.4321	0.322937	0
0	0.002005	0.008	0.03675	396.2745	0	86.63674	0.004908	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.836	0	26.00486	0.013097	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000449	0.012	0.13034	1628.203	505.9951	38.0085	0.009751	0.293609
0.005094	0	0.012	0.13034	882.5002	762.0646	0	0.000354	0.002876
0	0.000283	0.012	0.13034	1656.551	376.0152	26.2146	0.011279	0.202168
0.004729	0	0.012	0.13034	1123.705	2712.93	0	0.000522	0.037035
0	0.000444	0.008	0.7448	861.1129	2585.835	48.44537	0.011513	2.45033
0.0547	0	0.012	0.7448	1195.349	3477.718	0	0.004695	0.012778
0	0.000562	0.009076	0.100248	1207.32	0	47.38184	0.003102	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0



CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX	ROG_RUNE	ROG_IDLEX	ROG_STREX	ROG_HOTS	ROG_RUNL
0.000346	0.141706	0	0.018214	0.626082	0	0.001795	0.232895	1.04305
0	0.202233	2.677759	0	0.019713	6.373724	0	0	0
0	0.713665	0.848812	0	0.348147	0.068909	0	0	0
0.048768	0.004052	0	0.025508	0.007921	0	0.211612	0.108937	0.240289
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.076966	0.0081	0	0.029598	0.026212	0	0.389603	0.281197	0.956544
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.069231	0.00629	0	0.032142	0.01528	0	0.323058	0.158378	0.549237
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.026269	0.013595	0.003126	0.040909	0.037259	0.437419	0.13134	0.177416	1.101122
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.024915	0.012366	0.003146	0.04146	0.019203	0.440756	0.122262	0.142325	0.821469
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.241623	0.065268	0	0.015076	2.175374	0	1.823026	1.106176	2.2343
0.085883	0.007937	0	0.036159	0.020401	0	0.422436	0.185997	0.599114
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.032675	0.025611	0	0.035052	0.056595	0	0.133953	0.117672	2.315628
0	0.148356	0	0	0.079676	0	0	0	0
0.038397	0.018822	0.007741	0.029813	0.046235	1.087523	0.198738	0.094581	0.50697
0	0.138717	0.119786	0	0.007631	0.061928	0	0	0
0.030294	0.022437	0.005741	0.025823	0.053394	0.743285	0.154837	0.03517	0.4077
0	0.176631	0.426435	0	0.011231	0.797362	0	0	0
0.062581	0.024455	0.08824	0.050513	0.056642	10.63405	0.3583	0.079551	0.550483
0	0.187892	0.546649	0	0.101084	0.2751	0	0	0
0.046432	0.011135	0	0.053366	0.009279	0	0.180981	0.027357	0.109838
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

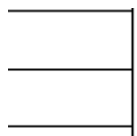
ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIUR
0.073415	0.138563	0.913577	0	0.001966	0.232895	1.04305	0.073415	0.138563
0	0	0.022441	7.256	0	0	0	0	0
0	0	5.460478	1.304419	0	0	0	0	0
0.204998	0.272238	0.011556	0	0.231688	0.108937	0.240289	0.204998	0.272238
0	0	0.013645	0	0	0	0	0	0
0.004751	0.021894	0	0	0	0.004888	0	0.004751	0.021894
0.529711	0.836502	0.038241	0	0.426565	0.281197	0.956544	0.529711	0.836502
0	0	0.221784	0	0	0	0	0	0
0.004771	0.021872	0	0	0	0.004888	0	0.004771	0.021872
0.360772	0.458982	0.022292	0	0.353707	0.158378	0.549237	0.360772	0.458982
0	0	0.016231	0	0	0	0	0	0
0.004769	0.021874	0	0	0	0.004888	0	0.004769	0.021874
0.038782	0.08817	0.054368	0.638281	0.143801	0.177416	1.101122	0.038782	0.08817
0	0	0.101557	0.124954	0	0	0	0	0
0.031578	0.064406	0.02802	0.64315	0.133861	0.142325	0.821469	0.031578	0.064406
0	0	0.087288	0.124954	0	0	0	0	0
1.415072	3.402902	2.676529	0	1.983767	1.106176	2.2343	1.415072	3.402902
0.445666	0.518423	0.029719	0	0.46251	0.185997	0.599114	0.445666	0.518423
0	0	0.012613	0	0	0	0	0	0
0.004777	0.021865	0	0	0	0.004888	0	0.004777	0.021865
0.056002	0.182409	0.082583	0	0.146662	0.117672	2.315628	0.056002	0.182409
0	0	0.090706	0	0	0	0	0	0
0.025678	0.05453	0.067466	1.586911	0.217593	0.094581	0.50697	0.025678	0.05453
0	0	0.008687	0.0705	0	0	0	0	0
0.028009	0.072173	0.077912	1.0846	0.169527	0.03517	0.4077	0.028009	0.072173
0	0	0.012786	0.907736	0	0	0	0	0
0.020232	0.038663	0.082651	15.51719	0.392293	0.079551	0.550483	0.020232	0.038663
0	0	0.115076	0.313181	0	0	0	0	0
0.007482	0.013596	0.013539	0	0.198151	0.027357	0.109838	0.007482	0.013596
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
38.9408	0	5.147834	0.019313	0	0.000461
0.174992	104.0112	0	0.012155	0.160944	0
13.33095	20.8002	0	0	0	0
0.58285	0	2.116679	0.002509	0	0.000532
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.219609	0	2.323323	0.002948	0	0.000634
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
0.852969	0	2.685365	0.003138	0	0.000682
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
0.991686	3.746224	1.754704	0.007903	0.001198	0.000187
0.608005	0.909745	0	0.004519	0.00128	0
0.504137	3.761574	1.632502	0.009068	0.001382	0.000212
0.512323	0.909745	0	0.004911	0.002052	0
19.4397	0	8.455656	0.002071	0	0.000598
0.997632	0	3.198076	0.003921	0	0.000857
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.697535	0	2.915607	0.016683	0	0.000257
0.344783	0	0	0.008923	0	0
1.16374	19.84895	4.279496	0.016112	0.005007	0.000376
0.0644	2.453095	0	0.008337	0.0072	0
1.315104	5.756642	3.220442	0.016393	0.003721	0.000259
0.103855	14.17312	0	0.010616	0.02563	0
1.263552	82.19556	8.400249	0.008521	0.025589	0.000479
0.300935	7.492246	0	0.011293	0.032856	0
0.163964	0	3.902118	0.011947	0	0.000469
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	386	140,890
Employees/Customers	Composite	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450

2023 Operation Mobile Source Assumptions Summary

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Notes:

Project Vehicle	EMFAC Class	Average Daily Trip Length (miles)	Max Daily Trips (trips/day)	Max Daily VMT (VMT/day)	Annual Trips (trips/year)	Annual VMT (VMT/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	40	386	15,440	140,890	5,635,600
Employees/Customers	Composite	16.6	607	10,076	221,555	3,677,813

Project Vehicle	EMFAC Class	Max Daily Trips (trips/day)	Annual Trips (trips/year)
Trucks	HHDT and MHDT LDA, LDT1, LDT2, and MCY	386	140,890
Employees/Customers	Composite	607	221,555

Project Vehicle	EMFAC Class	Idling Minutes per Day (min/day)	Idling Minutes per Year (min/year)
Trucks	HHDT and MHDT	1,930	704,450

2023 Operation Mobile Source Emissions Summary - Annual Emissions

Emissions - Annual

(Tons/Year)						(Metric Tons/Year)								
ROG	NOx	CO	SOx	PM10	PM2.5	CO2	CH4	N2O	CO2e					
<b>Running Exhaust, Tire Wear, and Break Wear</b>														
0.11	11.78	0.93	0.07	0.14	0.13	6,736.36	0.00	1.06	7,052.02					
0.11	0.23	3.47	0.01	0.01	0.01	992.62	0.02	0.02	999.27					
0.22	12.01	4.40	0.08	0.14	0.14	7,728.98	0.02	1.08	8,051.29					
<b>Paved Road - PM only</b>														
						10.44	2.56							
						1.22	0.30							
<i>Subtotal</i>						11.65	2.86							
<b>Starting Exhaust, Hot Soak, Running Loss Evaporative, Resting Loss Evap, Diurnal Loss Evap</b>														
0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
0.06	0.05	0.57	0.00	0.00	0.00	12.53	0.01	0.01	14.60					
<i>Subtotal</i>						0.06	0.41	0.57	0.00	0.00	12.53	0.01	0.01	14.60
<b>Idling</b>														
0.06	1.21	1.04	0.00	0.00	0.00	198.69	0.00	0.03	208.05					
<i>Subtotal</i>						0.06	1.21	1.04	0.00	0.00	198.69	0.00	0.03	208.05
<b>TOTAL</b>	<b>0.34</b>	<b>13.62</b>	<b>6.01</b>	<b>0.08</b>	<b>11.80</b>	<b>3.00</b>	<b>8,087.40</b>	<b>0.04</b>	<b>1.12</b>	<b>8,273.94</b>				





Table 5. Operation Mobile Source Emissions Factors - EMFAC2017 Annual ROG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS ROG RESTLOSS										
								ROG_RUNEX	ROG_IDLEX	ROG_STREX	ROG_HOTSOAK	ROG_RUNLOSS	ROG_RESTLOSS	ROG_DIURN	ROG_RESTLOSS - Calculated	ROG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.019712758	6.940248063	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.007630614	0.065785858	0	0	0	0	0	0	0	0	0
					<b>HHDT and MHDT Composite</b>			<b>0.0170</b>	<b>5.3877</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-</b>	<b>-</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.008133624	0	0.213065745	0.099643924	0.212348769	0.21888054	0.273535036				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.011986042	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.010081669	0.028068326				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.02688652	0	0.392815711	0.245206771	0.817457327	0.568919552	0.806945255				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.194814726	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.010068065	0.028072248				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.015682978	0	0.325603894	0.143440196	0.473052184	0.384687388	0.465645179				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.014257282	0	0	0	0	0	0				
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.010069673	0.028071785				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.21125662	0	1.893673863	0.828512979	1.957829386	1.587946267	2.890576071				
					<b>LDA, LDT1, LDT2, and MCY Composite</b>			<b>0.0279</b>	<b>0.0000</b>	<b>0.2554</b>	<b>0.1212</b>	<b>0.3129</b>	<b>0.2807</b>	<b>0.3612</b>	<b>0.069024</b>	<b>0.093364</b>	<b>0.8520</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 6. Operation Mobile Source Emissions Factors - EMFAC2017 Annual TOG

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	STEX HOTSOAK RUNLOSS TOG RESTLOSS										
								TOG_RUNEX	TOG_IDLEX	TOG_STREX	TOG_HOTSOAK	TOG_RUNLOSS	TOG_RESTLOSS	TOG_DIURN	TOG_RESTLOSS - Calculated	TOG_DIURN - Calculated	DIURN_Combined - Calculated	
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	(g/vehicle/day)	(g/vehicle/day)	(g/trip)	(g/trip)	(g/trip)	
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.022441475	7.90094412	0	0	0	0	0	0	0	0	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008686873	0.074892192	0	0	0	0	0	0	0	0	0
						<b>HHDT and MHDT Composite</b>		<b>0.0193</b>	<b>6.1335</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	-	-	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.011865323	0	0.2332795	0.099643924	0.212348769	0.21888054	0.273535036				
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.013645312	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.004888026	0	0.010081669	0.028068326				
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.039224273	0	0.430082874	0.245206771	0.817457327	0.568919552	0.806945255				
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.221783614	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.004888026	0	0.010068065	0.028072248				
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.022880177	0	0.356494813	0.143440196	0.473052184	0.384687388	0.465645179				
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.016230968	0	0	0	0	0	0	0			
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.004888026	0	0.010069673	0.028071785				
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	2.719720453	0	2.060593909	0.828512979	1.957829386	1.587946267	2.890576071				
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0367</b>	<b>0.0000</b>	<b>0.2796</b>	<b>0.1212</b>	<b>0.3129</b>	<b>0.2807</b>	<b>0.3612</b>	<b>0.069024</b>	<b>0.093364</b>	<b>0.8761</b>	

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

Table 7. Operation Mobile Source Emissions Factors - EMFAC2017 Annual NOx

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	NOx_RUNEX (g/mile)	NOx_IDLEX (g/vehicle/day)	NOx_STREX (g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg;	Aggregated	29,526.79	4,258,567.77	345,800.83	2.142049754	83.61940774	2.358047716
SAN BERNARDINO	2023	MHDT	Aggreg;	Aggregated	17,836.70	1,242,349.30	176,235.41	1.051143665	4.614527699	2.122578025
						<b>HHDT and MHDT Composite</b>		<b>1.8957</b>	<b>65.7766</b>	<b>2.3049</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.034585865	0	0.179683693
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.058388333	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.111393587	0	0.277495558
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.09011564	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.079565955	0	0.287705058
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.039865435	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	1.161821823	0	0.265681615
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0571</b>	<b>0.0000</b>	<b>0.2065</b>

**Table 8. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO_RUNEX	CO_IDLEX	CO_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	0.174992017	102.1324749	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	0.064399562	2.379735559	0
						<b>HHDT and MHDT Composite</b>		<b>0.1500</b>	<b>79.6039</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.615736095	0	2.151494387
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.186929597	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	1.283433273	0	2.362940389
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	1.192881305	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.899945239	0	2.728729758
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.121834273	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	20.35312444	0	8.805393528
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.8563</b>	<b>0.0000</b>	<b>2.3298</b>

**Table 9. Operation Mobile Source Emissions Factors - EMFAC2017 Annual SO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	SO2_RUNEX	SO2_IDLEX	SO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	0.012155	0.15820576	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	0.008337425	0.007140291	0
						<b>HHDT and MHDT Composite</b>		<b>0.0113</b>	<b>0.1241</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002564219	0	0.000532355
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.001831347	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.003005578	0	0.000634583
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.003773609	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003193735	0	0.000682475
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.002461434	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.002086182	0	0.000605832
						<b>LDA, LDT1, LDT2, and MCY Composite</b>		<b>0.0027</b>	<b>0.0000</b>	<b>0.0006</b>

Table 10. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM10

Region	CaYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM10_RUNEX	PM10_IDLEX	PM10_STREX	PM10_PMTW	PM10_PMBW	PM10_Combined - Calculated
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	(g/mile)
SAN BERNARDINO	2023	HHDT	Aggreg.	Aggregated	29,526.79	4,258,567.77	345,800.83	0.026204669	0.03444534	0	0.035662378	0.061160978	
SAN BERNARDINO	2023	MHDT	Aggreg.	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008582559	0.00422814	0	0.012000003	0.130340037	
							<b>HHDT and MHDT Composite</b>	<b>0.0222</b>	<b>0.0276</b>	<b>0.0000</b>	<b>0.0303</b>	<b>0.0768</b>	<b>0.129328</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.00135939	0	0.001828309	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.00590452	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.001990917	0	0.002662094	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.150724223	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001437799	0	0.001899428	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.00490209	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.008000002	0.036750011	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001854544	0	0.002930889	0.004000001	0.011760003	
							<b>LDA, LDT1, LDT2, and MCY Composite</b>	<b>0.0014</b>	<b>0.0000</b>	<b>0.0019</b>	<b>0.0080</b>	<b>0.0366</b>	<b>0.045960</b>

Table 11. Operation Mobile Source Emissions Factors - EMFAC2017 Annual PM2.5

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	PM2.5_RUNEX	PM2.5_IDLEX	PM2.5_STREX	PM2.5_PMTW	PM2.5_PMBW	PM2.5_Combined
								(g/mile)	(g/vehicle/day)	(g/trip)	(g/mile)	(g/mile)	Calculated
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.025071067	0.03295525	0	0.008915594	0.026211848	
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.008211281	0.004045233	0	0.003000001	0.055860016	
					<b>HHDT and MHDT Composite</b>			<b>0.0213</b>	<b>0.0264</b>	<b>0.0000</b>	<b>0.0076</b>	<b>0.0329</b>	<b>0.061751</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.001249918	0	0.0016811	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.005649093	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.00183063	0	0.002447806	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.14420396	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.001322026	0	0.001746501	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.004690028	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0	0.002000001	0.015750005	
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.001735058	0	0.002758994	0.001	0.005040001	
					<b>LDA, LDT1, LDT2, and MCY Composite</b>			<b>0.0013</b>	<b>0.0000</b>	<b>0.0017</b>	<b>0.0020</b>	<b>0.0157</b>	<b>0.018980</b>

**Table 12. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CO2**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CO2_RUNEX	CO2_IDLEX	CO2_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg; Aggregated		29,526.79	4,258,567.77	345,800.83	1286.58316	16745.77303	0
SAN BERNARDINO	2023	MHDT	Aggreg; Aggregated		17,836.70	1,242,349.30	176,235.41	882.5002439	755.7859833	0
<b>HHDT and MHDT Composite</b>								<b>1195.3234</b>	<b>13134.5298</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	259.1216564	0	53.79595416
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	193.7195637	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	303.7222916	0	64.12643577
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	399.1718369	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	322.7360954	0	68.96610291
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	260.3701083	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	210.8146979	0	61.22108436
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>269.8931</b>	<b>0.0000</b>	<b>56.5535</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day



**Table 14. Operation Mobile Source Emissions Factors - EMFAC2017 Annual N2O**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	N2O_RUNEX	N2O_IDLEX	N2O_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.202232956	2.632202321	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.138716749	0.118799032	0
<b>HHDT and MHDT Composite</b>								<b>0.1879</b>	<b>2.0646</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.004237184	0	0.025565289
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.030450018	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.008447837	0	0.02964783
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.062744254	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.006573159	0	0.032220707
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.040926555	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.066974591	0	0.015120897
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0056</b>	<b>0.0000</b>	<b>0.0265</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day
OBUS	5.9	min/day

**Table 13. Operation Mobile Source Emissions Factors - EMFAC2017 Annual CH4**

Region	CalYr	VehClass	Fuel	Speed	Population	VMT	Trips	CH4_RUNEX	CH4_IDLEX	CH4_STREX
								(g/mile)	(g/vehicle/day)	(g/trip)
SAN BERNARDINO	2023	HHDT	Aggreg	Aggregated	29,526.79	4,258,567.77	345,800.83	0.000915607	0.322356547	0
SAN BERNARDINO	2023	MHDT	Aggreg	Aggregated	17,836.70	1,242,349.30	176,235.41	0.000354422	0.003055583	0
<b>HHDT and MHDT Composite</b>								<b>0.0008</b>	<b>0.2502</b>	<b>0.0000</b>
SAN BERNARDINO	2023	LDA	GAS	Aggregated	929,038.61	38,321,202.19	4,374,906.39	0.002194977	0	0.049012381
SAN BERNARDINO	2023	LDA	DSL	Aggregated	8,375.72	365,072.84	39,999.74	0.000556729	0	0
SAN BERNARDINO	2023	LDA	ELEC	Aggregated	18,194.17	771,284.81	91,046.24	0	0	0
SAN BERNARDINO	2023	LDT1	GAS	Aggregated	98,412.43	3,525,890.09	446,995.47	0.006130738	0	0.077428346
SAN BERNARDINO	2023	LDT1	DSL	Aggregated	46.42	846.84	150.95	0.009048772	0	0
SAN BERNARDINO	2023	LDT1	ELEC	Aggregated	761.59	33,771.76	3,865.72	0	0	0
SAN BERNARDINO	2023	LDT2	GAS	Aggregated	301,046.02	11,239,619.24	1,399,637.61	0.003854772	0	0.069631951
SAN BERNARDINO	2023	LDT2	DSL	Aggregated	1,831.59	78,774.09	9,012.70	0.000662224	0	0
SAN BERNARDINO	2023	LDT2	ELEC	Aggregated	3,382.18	109,438.22	17,084.80	0	0	0
SAN BERNARDINO	2023	MCY	GAS	Aggregated	44,961.91	426,067.42	89,923.81	0.327288899	0	0.25029488
<b>LDA, LDT1, LDT2, and MCY Composite</b>								<b>0.0053</b>	<b>0.0000</b>	<b>0.0570</b>

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the Model Year: Aggregated

Notes:

Idle Duration:

HHDT	109.4	min/day
MHDT	5.86	min/day
LHDT1	1.74	min/day
LHDT2	1.87	min/day

**Table 14. Paved Road Fugitive Emissions - Operation Mobile Sources**

**Equation:**

$$E = k \times (sL/2)^{0.91} \times (W)1.02 \text{ [maximum day]}$$

**Where:**

		<b>Units</b>
k	particle size multiplier (PM <sub>10</sub> )	0.00220 lb/VMT
k	particle size multiplier (PM <sub>2.5</sub> )	0.00054 lb/VMT
sL	silt loading (2) average weight (tons) of the vehicle traveling the road	0.1 g/m <sup>2</sup>
W	road	2.4 tons

**Notes/References:**

k = Emission factors from CalEEMod2016.3.1 per AP-42, Section 13.2.1 (Paved Roads).

sL = Silt loading from CalEEMod2016.3.2

For daily emissions it is assumed to have no precipitation.

**Truck Weight Assumptions**

EMFAC Definition	EMFAC Category	GVWR (pounds)	GVWR (tons)	
Heavy Heavy-Duty Truck	HHDT	>33,000	17	<i>Assumed 33,000 pounds</i>
Medium Heavy-Duty Truck	MHDT	14,001-33,000	8	<i>Assumed average of 14,001 &amp; 33,000 pounds</i>
Composite Heavy & Medium Heavy-Duty Truck	HHDT & MHDT	14,001-33,000+	13	<i>Assumed average of HHDT &amp; MHDT pounds</i>

Source: EMFAC 2014

GVWR = Gross Vehicle Weight Rating

1 pound = 0.0005 US tons

**Employee Vehicles Evaluated:**

Employee Type	Average Weight (tons)
Passenger Vehicles	2.4

**Reference:**

Source: CalEEMod2016.3.2 (average vehicle weight = 2.4 tons)

Per AP-42, Section 13.2.1 (Paved Roads): The above equation calls for the average weight of all vehicles traveling the road. For example, if 99 percent of traffic on the road are 2 ton cars/trucks while the remaining 1 percent consists of 20 ton trucks, then the mean weight "W" is 2.2 tons. More specifically, the above equation is not intended to be used to calculate a separate emission factor for each vehicle weight class. Instead, only one emission factor should be calculated to represent the "fleet" average weight of all vehicles traveling the road.

Emission Factors	PM10 Paved Road	PM2.5 Paved Road	PM10 Paved Road	PM2.5 Paved Road
	(lb/VMT)	(lb/VMT)	(g/VMT)	(g/VMT)
HHDT	0.0049	0.0012	2.2087	0.5421
MHDT	0.0023	0.0006	1.0239	0.2513
HHDT & MHDT	0.0037	0.0009	1.6800	0.4124
Passenger Vehicles	0.0007	0.0002	0.2998	0.0736
Average	0.0022	0.0005	0.9899	0.2430

EMFAC2017 (v1.0.2) Emission Rates

Region Type: County

Region: SAN BERNARDINO

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTS

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	GAS	7.80192	902.9373	156.1008
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	DSL	29526.79	4258568	345800.8
SAN BERNARDINO	2023	HHDT	Aggregate	Aggregate	NG	1180.525	48153.57	4604.047
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	GAS	929038.6	38321202	4374906
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	DSL	8375.719	365072.8	39999.74
SAN BERNARDINO	2023	LDA	Aggregate	Aggregate	ELEC	18194.17	771284.8	91046.24
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	GAS	98412.43	3525890	446995.5
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	DSL	46.41835	846.844	150.9529
SAN BERNARDINO	2023	LDT1	Aggregate	Aggregate	ELEC	761.5852	33771.76	3865.722
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	GAS	301046	11239619	1399638
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	DSL	1831.594	78774.09	9012.703
SAN BERNARDINO	2023	LDT2	Aggregate	Aggregate	ELEC	3382.181	109438.2	17084.8
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	GAS	24792.49	832047.9	369371.2
SAN BERNARDINO	2023	LHDT1	Aggregate	Aggregate	DSL	23193.37	818620.9	291743.4
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	GAS	4042.309	134715.2	60224.38
SAN BERNARDINO	2023	LHDT2	Aggregate	Aggregate	DSL	8744.904	309655.5	109999.9
SAN BERNARDINO	2023	MCY	Aggregate	Aggregate	GAS	44961.91	426067.4	89923.81
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	GAS	239897.7	8627560	1092834
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	DSL	5124.779	214852.4	24788.26
SAN BERNARDINO	2023	MDV	Aggregate	Aggregate	ELEC	1976.826	65590.01	10067.39
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	GAS	6488.29	53980.45	649.0885
SAN BERNARDINO	2023	MH	Aggregate	Aggregate	DSL	2522.551	21236.11	252.2551
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	GAS	2406.141	152847.6	48142.06
SAN BERNARDINO	2023	MHDT	Aggregate	Aggregate	DSL	17836.7	1242349	176235.4
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	GAS	688.0064	35951.49	13765.63
SAN BERNARDINO	2023	OBUS	Aggregate	Aggregate	DSL	306.1797	23296.33	2966.446
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	GAS	297.7557	14188.32	1191.023
SAN BERNARDINO	2023	SBUS	Aggregate	Aggregate	DSL	1397.228	44391.54	16123.82
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	GAS	158.9354	17958.39	635.7416
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	DSL	4.056305	346.2169	16.22522
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	ELEC	0.085938	1.919228	0.343752
SAN BERNARDINO	2023	UBUS	Aggregate	Aggregate	NG	288.4645	38676.87	1153.858

K and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN. Note 'day' in the unit is operation day.

NOx_RUNE	NOx_IDLEX	NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STR	PM2.5_PM	PM2.5_PM	PM10_RUN
4.131843	0	0.645749	0.00161	0	0.001152	0.005	0.02646	0.001751
2.14205	83.61941	2.358048	0.025071	0.032955	0	0.008916	0.026212	0.026205
3.218884	23.85602	0	0.005485	0.038047	0	0.009	0.02646	0.005733
0.034586	0	0.179684	0.00125	0	0.001681	0.002	0.01575	0.001359
0.058388	0	0	0.005649	0	0	0.002	0.01575	0.005905
0	0	0	0	0	0	0.002	0.01575	0
0.111394	0	0.277496	0.001831	0	0.002448	0.002	0.01575	0.001991
1.090116	0	0	0.144204	0	0	0.002	0.01575	0.150724
0	0	0	0	0	0	0.002	0.01575	0
0.079566	0	0.287705	0.001322	0	0.001747	0.002	0.01575	0.001438
0.039865	0	0	0.00469	0	0	0.002	0.01575	0.004902
0	0	0	0	0	0	0.002	0.01575	0
0.239617	0.038205	0.530552	0.001165	0	0.000414	0.002	0.03276	0.001267
2.576256	2.166992	0	0.019182	0.026273	0	0.003	0.03276	0.020049
0.194343	0.038441	0.539859	0.000951	0	0.000312	0.002	0.03822	0.001035
2.065839	2.151183	0	0.018283	0.026366	0	0.003	0.03822	0.01911
1.161822	0	0.265682	0.001735	0	0.002759	0.001	0.00504	0.001855
0.104206	0	0.365451	0.00135	0	0.001844	0.002	0.01575	0.001468
0.05365	0	0	0.004828	0	0	0.002	0.01575	0.005046
0	0	0	0	0	0	0.002	0.01575	0
0.433441	0	0.333657	0.00121	0	0.000322	0.003	0.05586	0.001316
4.376658	0	0	0.132017	0	0	0.004	0.05586	0.137986
0.358891	0.089292	0.359139	0.000933	0	0.000413	0.003	0.05586	0.001015
1.051144	4.614528	2.122578	0.008211	0.004045	0	0.003	0.05586	0.008583
0.467975	0.064861	0.318598	0.000821	0	0.00026	0.003	0.05586	0.000893
1.533164	12.07344	2.200785	0.013782	0.003921	0	0.003	0.05586	0.014405
0.442084	0.92602	0.539072	0.000987	0	0.000408	0.002	0.3192	0.001073
6.178777	40.12813	1.044584	0.035536	0.043123	0	0.003	0.3192	0.037143
0.104577	0	0.460136	0.001254	0	0.000517	0.002269	0.042963	0.001364
2.783764	0	0	0.007329	0	0	0.004919	0.046456	0.00766
0	0	0	0	0	0	0.005052	0.045804	0
0.473486	0	0	0.003129	0	0	0.008203	0.030298	0.00327

PM10_IDLE	PM10_STRI	PM10_PMT	PM10_PME	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX
0	0.001253	0.02	0.06174	1951.369	0	46.71819	0.114668	0
0.034445	0	0.035662	0.061161	1286.583	16745.77	0	0.000916	0.322357
0.039767	0	0.036	0.06174	3500.822	4194.697	0	5.042156	1.265272
0	0.001828	0.008	0.03675	259.1217	0	53.79595	0.002195	0
0	0	0.008	0.03675	193.7196	0	0	0.000557	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.002662	0.008	0.03675	303.7223	0	64.12644	0.006131	0
0	0	0.008	0.03675	399.1718	0	0	0.009049	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.001899	0.008	0.03675	322.7361	0	68.9661	0.003855	0
0	0	0.008	0.03675	260.3701	0	0	0.000662	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00045	0.008	0.07644	798.6448	121.0254	18.95496	0.007611	0.121628
0.027461	0	0.012	0.07644	478.0268	135.3602	0	0.004144	0.005098
0	0.000339	0.008	0.08918	916.3717	139.7034	21.48001	0.004375	0.124211
0.027558	0	0.012	0.08918	519.4339	217.0209	0	0.003561	0.005098
0	0.002931	0.004	0.01176	210.8147	0	61.22108	0.327289	0
0	0.002005	0.008	0.03675	402.3487	0	86.72936	0.005038	0
0	0	0.008	0.03675	351.6629	0	0	0.000515	0
0	0	0.008	0.03675	0	0	0	0	0
0	0.00035	0.012	0.13034	1685.826	0	26.04796	0.01306	0
0	0	0.016	0.13034	943.8266	0	0	0.003701	0
0	0.000449	0.012	0.13034	1628.198	537.671	38.12586	0.009729	0.271401
0.004228	0	0.012	0.13034	882.5002	755.786	0	0.000354	0.003056
0	0.000283	0.012	0.13034	1656.544	376.0152	26.25501	0.01124	0.202121
0.004098	0	0.012	0.13034	1123.705	2663.38	0	0.000522	0.04038
0	0.000444	0.008	0.7448	861.1164	2585.835	48.02782	0.011528	2.45088
0.045073	0	0.012	0.7448	1195.349	3603.076	0	0.004695	0.012763
0	0.000562	0.009076	0.100248	1207.319	0	47.53987	0.003092	0
0	0	0.019677	0.108397	1467.309	0	0	0.149582	0
0	0	0.020209	0.106877	0	0	0	0	0
0	0	0.032812	0.070695	1963.412	0	0	6.175621	0

CH4_STREX	N2O_RUNE	N2O_IDLEX	N2O_STRE	ROG_RUNE	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNL
0.00035	0.145243	0	0.018376	0.623892	0	0.001813	0.197516	0.99633
0	0.202233	2.632202	0	0.019713	6.940248	0	0	0
0	0.713665	0.855116	0	0.348147	0.065581	0	0	0
0.049012	0.004237	0	0.025565	0.008134	0	0.213066	0.099644	0.212349
0	0.03045	0	0	0.011986	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.077428	0.008448	0	0.029648	0.026887	0	0.392816	0.245207	0.817457
0	0.062744	0	0	0.194815	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.069632	0.006573	0	0.032221	0.015683	0	0.325604	0.14344	0.473052
0	0.040927	0	0	0.014257	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.026515	0.013937	0.003106	0.041331	0.03712	0.437419	0.132696	0.150311	1.022408
0	0.075139	0.021277	0	0.089208	0.10976	0	0	0
0.025128	0.012705	0.003125	0.041854	0.019141	0.440756	0.123416	0.124331	0.7597
0	0.081648	0.034113	0	0.076673	0.10976	0	0	0
0.250295	0.066975	0	0.015121	2.211257	0	1.893674	0.828513	1.957829
0.086364	0.008294	0	0.03623	0.021004	0	0.425665	0.171826	0.52003
0	0.055277	0	0	0.011079	0	0	0	0
0	0	0	0	0	0	0	0.004888	0
0.032863	0.026265	0	0.035219	0.056405	0	0.134693	0.095695	2.195494
0	0.148356	0	0	0.079676	0	0	0	0
0.038845	0.019329	0.00808	0.030016	0.046097	1.003255	0.200716	0.085128	0.464405
0	0.138717	0.118799	0	0.007631	0.065786	0	0	0
0.030437	0.023047	0.005697	0.026007	0.053209	0.743285	0.15559	0.032551	0.382421
0	0.176631	0.418646	0	0.011231	0.869363	0	0	0
0.061133	0.024908	0.087802	0.050052	0.056708	10.63405	0.34974	0.07745	0.45397
0	0.187892	0.566353	0	0.101084	0.274791	0	0	0
0.046954	0.011416	0	0.053426	0.009248	0	0.183368	0.023975	0.095148
0	0.23064	0	0	0.002137	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0.400254	0	0	0.088341	0	0	0	0

ROG_RESTI	ROG_DIURI	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI
0.072338	0.127065	0.910382	0	0.001985	0.197516	0.99633	0.072338	0.127065
0	0	0.022441	7.900944	0	0	0	0	0
0	0	5.460478	1.345426	0	0	0	0	0
0.218881	0.273535	0.011865	0	0.233279	0.099644	0.212349	0.218881	0.273535
0	0	0.013645	0	0	0	0	0	0
0.010082	0.028068	0	0	0	0.004888	0	0.010082	0.028068
0.56892	0.806945	0.039224	0	0.430083	0.245207	0.817457	0.56892	0.806945
0	0	0.221784	0	0	0	0	0	0
0.010068	0.028072	0	0	0	0.004888	0	0.010068	0.028072
0.384687	0.465645	0.02288	0	0.356495	0.14344	0.473052	0.384687	0.465645
0	0	0.016231	0	0	0	0	0	0
0.01007	0.028072	0	0	0	0.004888	0	0.01007	0.028072
0.039357	0.080292	0.054165	0.638281	0.145285	0.150311	1.022408	0.039357	0.080292
0	0	0.101557	0.124954	0	0	0	0	0
0.032435	0.061945	0.027931	0.64315	0.135125	0.124331	0.7597	0.032435	0.061945
0	0	0.087288	0.124954	0	0	0	0	0
1.587946	2.890576	2.71972	0	2.060594	0.828513	1.957829	1.587946	2.890576
0.473102	0.539455	0.030595	0	0.466045	0.171826	0.52003	0.473102	0.539455
0	0	0.012613	0	0	0	0	0	0
0.010064	0.028073	0	0	0	0.004888	0	0.010064	0.028073
0.055125	0.156878	0.082306	0	0.147472	0.095695	2.195494	0.055125	0.156878
0	0	0.090706	0	0	0	0	0	0
0.026199	0.05082	0.067265	1.463947	0.219759	0.085128	0.464405	0.026199	0.05082
0	0	0.008687	0.074892	0	0	0	0	0
0.027845	0.067393	0.077642	1.0846	0.170351	0.032551	0.382421	0.027845	0.067393
0	0	0.012786	0.989704	0	0	0	0	0
0.020183	0.040849	0.082749	15.51719	0.382921	0.07745	0.45397	0.020183	0.040849
0	0	0.115076	0.312829	0	0	0	0	0
0.007537	0.012884	0.013494	0	0.200764	0.023975	0.095148	0.007537	0.012884
0	0	0.152659	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	6.302787	0	0	0	0	0	0

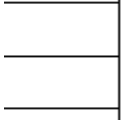


CO_RUNEX	CO_IDLEX	CO_STREX	SOx_RUNE	SOx_IDLEX	SOx_STREX
38.80748	0	5.215119	0.01931	0	0.000462
0.174992	102.1325	0	0.012155	0.158206	0
13.33095	19.61812	0	0	0	0
0.615736	0	2.151494	0.002564	0	0.000532
0.18693	0	0	0.001831	0	0
0	0	0	0	0	0
1.283433	0	2.36294	0.003006	0	0.000635
1.192881	0	0	0.003774	0	0
0	0	0	0	0	0
0.899945	0	2.72873	0.003194	0	0.000682
0.121834	0	0	0.002461	0	0
0	0	0	0	0	0
0.988278	3.746224	1.781748	0.007903	0.001198	0.000188
0.608005	0.909745	0	0.004519	0.00128	0
0.502682	3.761574	1.654426	0.009068	0.001382	0.000213
0.512323	0.909745	0	0.004911	0.002052	0
20.35312	0	8.805394	0.002086	0	0.000606
1.053574	0	3.249666	0.003982	0	0.000858
0.193117	0	0	0.003324	0	0
0	0	0	0	0	0
1.69178	0	2.941233	0.016683	0	0.000258
0.344783	0	0	0.008923	0	0
1.160603	14.36279	4.349347	0.016112	0.005321	0.000377
0.0644	2.379736	0	0.008337	0.00714	0
1.310916	5.756642	3.244345	0.016393	0.003721	0.00026
0.103855	13.92292	0	0.010616	0.025162	0
1.265574	82.19556	8.154952	0.008521	0.025589	0.000475
0.300935	6.887325	0	0.011293	0.03404	0
0.163525	0	3.996761	0.011947	0	0.00047
0.226052	0	0	0.013871	0	0
0	0	0	0	0	0
48.06317	0	0	0	0	0

$$RESTL_{CalEEMod} = \frac{\sum_{fueltype} (RESTL\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

$$DIURN_{CalEEMod} = \frac{\sum_{fueltype} (DIURN\_EmissionRate_i \times Population_i)}{\sum_{fueltype} Trip_i}$$

RESTL	Resting Loss Evaporative	grams/vehicle/day	grams/trip
DIURN	Diurnal Loss Evaporative	grams/vehicle/day	grams/trip



### Quantification of Commercial EV Charging Station Benefit

SCE Electricity Emission Factor <sup>1</sup>	0.24	MT CO <sub>2</sub> e/MWh
Fuel Economy of Electric Vehicle <sup>2</sup>	0.4	kWh/mile
Gasoline/Diesel CO <sub>2</sub> e Emission while Running <sup>3</sup>	316	g/mile
Annual VMT per Parking Spot <sup>4</sup>	52,000	miles/charging station/year
Number of EV Parking Spots Provided by Project <sup>5</sup>	43	
Annual VMT All Stations (Based on Charge)	2,236,000	miles/year
GHG Emissions of Gasoline/Diesel Vehicle <sup>6</sup>	707	MT CO <sub>2</sub> e/year
GHG Emissions of Electric Vehicle <sup>7</sup>	217	MT CO <sub>2</sub> e/year
GHG Emissions Reduction <sup>8</sup>	491	MT CO <sub>2</sub> e/year
GHG Reduction per Parking Space with Charging per Year	11	MT CO <sub>2</sub> e/year

Notes:

1. Based on 2019 Sustainability Report for SCE.
2. US Department of Energy. 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. [https://www.afdc.energy.gov/fuels/electricity\\_benefits.html](https://www.afdc.energy.gov/fuels/electricity_benefits.html). Accessed October 2018.
3. California Air Resources Board. 2021. EMFAC 2021. Running exhaust emission rate for CO<sub>2</sub> for light duty gasoline- and diesel-powered vehicles for South Coast Air Basin, aggregated for all models and speeds, averaged over all seasons for 2024. <https://www.arb.ca.gov/emfac/>. Accessed March 2021.
4. Annual VMT reduction estimated based on an estimate of 8 hours of charge time for a Level 2 charging station that charges at a rate of 25 miles of driving range per hour.
5. Number of charging stations based on project commitment. This assumes 43 parking spaces would be serviced by a charging station.
6. GHG emissions calculated using annual VMT reduction at all stations.
7. GHG emissions calculated using annual VMT reduction at all stations, fuel economy of electric vehicles, along with SCE electricity intensity emission factor.
8. GHG emission reduction is a difference of GHG emissions of gasoline vehicles and GHG emissions of electric vehicles.

1. Electric Lift Vehicles - Energy Consumption

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Drive Motor Capacity		Facility Operation (hrs/day)	Vehicle Operation				Electric Energy Consumption per Unit		Total Energy Consumption		
			(hp)	(kW)		Load Factor <sup>3</sup>	(days/week)	(weeks/yr)	(hrs/year)	(kWhr/day/Unit)	(kWhr/yr/Unit)	Units	(kWhr/day)	(kWhr/yr)
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity		0.7	8	0.2	7	52	582.4	1.12	407.68		0.00	0.00
		Lift Motor Capacity		0.8	8	0.05	7	52	145.6	0.32	116.48		0.00	0.00
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity		11	8	0.2	7	52	582.4	17.60	6,406.40	38	668.80	243,443.20
		Lift Motor Capacity		10	8	0.05	7	52	145.6	4.00	1,456.00		152.00	55,328.00
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	24	18	8	0.2	7	52	582.4	28.80	10,483.20	13	374.40	136,281.60
		Lift Motor Capacity	27	20	8	0.05	7	52	145.6	8.00	2,912.00		104.00	37,856.00
<b>Total</b>												<b>1,299.20</b>	<b>472,908.80</b>	

<sup>1</sup> Based on Global Industrial™ 3300 LB. CAPACITY SELF-PROPELLED ELECTRIC POWER PALLET JACK TRUCK

[https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw\\_sn8BRBrEiwAnUGJdsnUx19lvgquuTz2DOx51UqkSAlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD\\_BwE](https://www.globalindustrial.com/p/material-handling/pallet-trucks-jacks/self-propelled/global-industrial-self-propelled-electric-power-pallet-jack-truck-3300-lb-cap?infoParam.campaignId=T9F&gclid=CjwKCAjw_sn8BRBrEiwAnUGJdsnUx19lvgquuTz2DOx51UqkSAlg9VO22XpkzZWYl-FmMiqFRaeRoCOqEQAvD_BwE)

<sup>2</sup> Based on CAT Model EP12ANT - EP20ANT

<https://www.catlifttruck.com/lift-trucks/counterbalance-forklift-trucks/electric-powered-lift-trucks/ep14-20acnt>

<sup>3</sup> Based on CAT Model 2EPC7000 - 2EP11000

<https://www.logisnextamericas.com/-/media/mcfa/sites/portal/files/forklifts/cat-lift-trucks/sales%20literature/clt-i-2ep7000-2ep11000-english.pdf>

<sup>4</sup> Drive motor load factor based on CalEEMod User Manual Table 3.3 for offroad forklift load factor  
Lift motor load factor set equal of 25% of drive motor capacity factor based on engineering estimate.

2. Electric Lift Vehicles - Greenhouse Gas (GHG) Emissions

Vehicle Category	Lift Capacity (lbs)	Electric Motors	Total Energy Consumption		GHG Intensity Factors				Annual GHG Emissions			
			(kWhr/day)	(kWhr/yr)	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>	CO2	CH4	N2O	CO <sub>2</sub> e <sup>1</sup>
					(lb/MWhr)				(Metric TPY)			
Pallet Jack <sup>1</sup>	3,300	Drive Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
		Lift Motor Capacity	0	0.00	531.44	0.029	0.00617	534	0	0	0	0
Small Forklift <sup>2</sup>	3,086-4,409	Drive Motor Capacity	668.8	243,443.20	531.44	0.029	0.00617	534	58.68	0.00	0.00	58.97
		Lift Motor Capacity	152	55,328.00	531.44	0.029	0.00617	534	13.34	0.00	0.00	13.40
Large Forklift <sup>3</sup>	7,000-11,000	Drive Motor Capacity	374.4	136,281.60	531.44	0.029	0.00617	534	32.85	0.00	0.00	33.01
		Lift Motor Capacity	104	37,856.00	531.44	0.029	0.00617	534	9.13	0.00	0.00	9.17
<b>Total</b>								<b>114.00</b>	<b>0.01</b>	<b>0.00</b>	<b>114.55</b>	

<sup>1</sup> Based on SCE 2019 Corporate Sustainability Report.

<https://www.edison.com/content/dam/eix/documents/sustainability/eix-2019-sustainability-report.pdf>

<sup>2</sup> Based on CalEEMod default values for the Utility

