



## 11.8 Air Quality/Greenhouse Gas Emissions/Energy Data

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Victoria Blvd Apt - Orange County, Annual

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

**Victoria Blvd Apt  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	681.00	Space	0.60	272,400.00	0
City Park	3.31	Acre	3.31	144,183.60	0
Apartments Mid Rise	349.00	Dwelling Unit	1.40	317,300.00	998
Parking Lot	40.00	Space	0.20	16,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	13			<b>Operational Year</b>	2026
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Per site plan date July 2022

Construction Phase - Per AQ Questionnaire

Off-road Equipment - Default

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire

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Trips and VMT - per AQ questionnaire

Demolition - Per CalEEMod Appendix A, 108,000 building volume ft<sup>3</sup> =27,000 waste volume ft<sup>3</sup> = 1000 waste volume yd<sup>3</sup> = 500 tons waste

Grading - per site plan

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Apartment mid rise per traffic study; "city park" represents proposed landscaping/open space and doesn't generate trips.

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - per SCAQMD Rule 445

Water Mitigation - per CALGreen

Waste Mitigation - per AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	528.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	PhaseEndDate	6/28/2024	2/14/2024
tblConstructionPhase	PhaseEndDate	7/26/2024	4/16/2024
tblConstructionPhase	PhaseEndDate	6/13/2025	4/24/2026
tblConstructionPhase	PhaseEndDate	7/11/2025	7/16/2025
tblConstructionPhase	PhaseEndDate	8/8/2025	12/31/2025

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tblConstructionPhase	PhaseStartDate	6/1/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2024	2/15/2024
tblConstructionPhase	PhaseStartDate	7/27/2024	4/17/2024
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	7/12/2025	10/1/2025
tblGrading	MaterialExported	0.00	19,585.00
tblLandUse	LandUseSquareFeet	349,000.00	317,300.00
tblLandUse	LotAcreage	6.13	0.60
tblLandUse	LotAcreage	9.18	1.40
tblLandUse	LotAcreage	0.36	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Pavers
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Pavers	Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblVehicleTrips	ST_TR	4.91	0.97
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	4.09	0.89
tblVehicleTrips	SU_TR	2.19	0.00

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tblVehicleTrips	WD_TR	5.44	7.22
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3782	3.4762	3.1961	0.0124	0.6613	0.1088	0.7701	0.1640	0.1003	0.2643	0.0000	1,154.0287	1,154.0287	0.1826	0.0664	1,178.3730
2025	1.3661	2.4459	3.1959	0.0118	0.7421	0.0754	0.8175	0.1991	0.0696	0.2687	0.0000	1,084.7050	1,084.7050	0.1441	0.0459	1,101.9809
2026	0.1018	0.7250	0.9135	3.4700e-003	0.2228	0.0221	0.2449	0.0598	0.0204	0.0802	0.0000	319.9446	319.9446	0.0432	0.0139	325.1710
<b>Maximum</b>	<b>1.3661</b>	<b>3.4762</b>	<b>3.1961</b>	<b>0.0124</b>	<b>0.7421</b>	<b>0.1088</b>	<b>0.8175</b>	<b>0.1991</b>	<b>0.1003</b>	<b>0.2687</b>	<b>0.0000</b>	<b>1,154.0287</b>	<b>1,154.0287</b>	<b>0.1826</b>	<b>0.0664</b>	<b>1,178.3730</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.3782	3.4762	3.1961	0.0124	0.6058	0.1088	0.7146	0.1578	0.1003	0.2581	0.0000	1,154.0281	1,154.0281	0.1826	0.0664	1,178.3725
2025	1.3661	2.4459	3.1959	0.0118	0.7421	0.0754	0.8175	0.1991	0.0696	0.2687	0.0000	1,084.7045	1,084.7045	0.1441	0.0459	1,101.9805
2026	0.1018	0.7250	0.9135	3.4700e-003	0.2228	0.0221	0.2449	0.0598	0.0204	0.0802	0.0000	319.9445	319.9445	0.0432	0.0139	325.1708
<b>Maximum</b>	<b>1.3661</b>	<b>3.4762</b>	<b>3.1961</b>	<b>0.0124</b>	<b>0.7421</b>	<b>0.1088</b>	<b>0.8175</b>	<b>0.1991</b>	<b>0.1003</b>	<b>0.2687</b>	<b>0.0000</b>	<b>1,154.0281</b>	<b>1,154.0281</b>	<b>0.1826</b>	<b>0.0664</b>	<b>1,178.3725</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	3.41	0.00	3.03	1.46	0.00	1.01	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2024	8-31-2024	0.7539	0.7539
2	9-1-2024	11-30-2024	0.7532	0.7532
3	12-1-2024	2-28-2025	0.6875	0.6875
4	3-1-2025	5-31-2025	0.6626	0.6626
5	6-1-2025	8-31-2025	0.7517	0.7517
6	9-1-2025	11-30-2025	1.3646	1.3646
7	12-1-2025	2-28-2026	1.0108	1.0108
8	3-1-2026	5-31-2026	0.3948	0.3948
		Highest	1.3646	1.3646



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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.5198	0.1320	5.8235	5.8500e-003		0.3532	0.3532		0.3532	0.3532	37.0705	77.1338	114.2042	0.1162	2.5200e-003	117.8597
Energy	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	594.5741	594.5741	0.0307	5.8800e-003	597.0942
Mobile	0.8555	0.9355	8.7645	0.0206	2.4347	0.0140	2.4487	0.6499	0.0130	0.6629	0.0000	1,908.4543	1,908.4543	0.1164	0.0803	1,935.2816
Waste						0.0000	0.0000		0.0000	0.0000	32.6450	0.0000	32.6450	1.9293	0.0000	80.8766
Water						0.0000	0.0000		0.0000	0.0000	7.2140	122.2602	129.4742	0.7484	0.0184	153.6680
<b>Total</b>	<b>3.3890</b>	<b>1.1845</b>	<b>14.6378</b>	<b>0.0272</b>	<b>2.4347</b>	<b>0.3767</b>	<b>2.8113</b>	<b>0.6499</b>	<b>0.3757</b>	<b>1.0256</b>	<b>76.9294</b>	<b>2,702.4223</b>	<b>2,779.3518</b>	<b>2.9410</b>	<b>0.1071</b>	<b>2,884.7801</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	1.3843	0.1066	3.6326	6.1000e-004		0.0253	0.0253		0.0253	0.0253	0.0000	81.3242	81.3242	7.1200e-003	1.3800e-003	81.9143
Energy	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	594.5741	594.5741	0.0307	5.8800e-003	597.0942
Mobile	0.8555	0.9355	8.7645	0.0206	2.4347	0.0140	2.4487	0.6499	0.0130	0.6629	0.0000	1,908.4543	1,908.4543	0.1164	0.0803	1,935.2816
Waste						0.0000	0.0000		0.0000	0.0000	16.3225	0.0000	16.3225	0.9646	0.0000	40.4383
Water						0.0000	0.0000		0.0000	0.0000	5.7712	107.7563	113.5275	0.5993	0.0148	132.9197
<b>Total</b>	<b>2.2535</b>	<b>1.1591</b>	<b>12.4469</b>	<b>0.0220</b>	<b>2.4347</b>	<b>0.0487</b>	<b>2.4834</b>	<b>0.6499</b>	<b>0.0477</b>	<b>0.6976</b>	<b>22.0937</b>	<b>2,692.1089</b>	<b>2,714.2025</b>	<b>1.7182</b>	<b>0.1023</b>	<b>2,787.6481</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>33.51</b>	<b>2.14</b>	<b>14.97</b>	<b>19.24</b>	<b>0.00</b>	<b>87.07</b>	<b>11.67</b>	<b>0.00</b>	<b>87.30</b>	<b>31.98</b>	<b>71.28</b>	<b>0.38</b>	<b>2.34</b>	<b>41.58</b>	<b>4.44</b>	<b>3.37</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	2/14/2024	5	33	
2	Grading	Grading	2/15/2024	4/16/2024	5	44	
3	Building Construction	Building Construction	4/17/2024	4/24/2026	5	528	

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4	Paving	Paving	6/1/2025	7/16/2025	5	33
5	Architectural Coating	Architectural Coating	10/1/2025	12/31/2025	5	66

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

**Acres of Grading (Grading Phase): 154**

**Acres of Paving: 0.8**

**Residential Indoor: 642,533; Residential Outdoor: 214,178; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 17,304 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Pavers	1	8.00	130	0.42
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Scrapers	1	8.00	367	0.48
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Grading	Graders	1	8.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	8.00	367	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Signal Boards	1	8.00	6	0.82
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	5	13.00	0.00	49.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	2,448.00	14.70	6.90	60.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	433.00	108.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3500e-003	0.0000	5.3500e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0427	0.4293	0.2742	7.1000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	62.6245	62.6245	0.0203	0.0000	63.1308
<b>Total</b>	<b>0.0427</b>	<b>0.4293</b>	<b>0.2742</b>	<b>7.1000e-004</b>	<b>5.3500e-003</b>	<b>0.0182</b>	<b>0.0236</b>	<b>8.1000e-004</b>	<b>0.0168</b>	<b>0.0176</b>	<b>0.0000</b>	<b>62.6245</b>	<b>62.6245</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.1308</b>

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**3.2 Demolition - 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	8.0000e-005	5.6700e-003	1.7200e-003	3.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	2.7487	2.7487	2.9000e-004	4.4000e-004	2.8874
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	5.7000e-004	3.9000e-004	5.8100e-003	2.0000e-005	2.3500e-003	1.0000e-005	2.3700e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.7336	1.7336	4.0000e-005	4.0000e-005	1.7466
<b>Total</b>	<b>6.5000e-004</b>	<b>6.0600e-003</b>	<b>7.5300e-003</b>	<b>5.0000e-005</b>	<b>3.1900e-003</b>	<b>5.0000e-005</b>	<b>3.2500e-003</b>	<b>8.6000e-004</b>	<b>5.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>4.4824</b>	<b>4.4824</b>	<b>3.3000e-004</b>	<b>4.8000e-004</b>	<b>4.6341</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					1.9800e-003	0.0000	1.9800e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0427	0.4293	0.2742	7.1000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	62.6244	62.6244	0.0203	0.0000	63.1307
<b>Total</b>	<b>0.0427</b>	<b>0.4293</b>	<b>0.2742</b>	<b>7.1000e-004</b>	<b>1.9800e-003</b>	<b>0.0182</b>	<b>0.0202</b>	<b>3.0000e-004</b>	<b>0.0168</b>	<b>0.0171</b>	<b>0.0000</b>	<b>62.6244</b>	<b>62.6244</b>	<b>0.0203</b>	<b>0.0000</b>	<b>63.1307</b>

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**3.2 Demolition - 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	8.0000e-005	5.6700e-003	1.7200e-003	3.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	2.7487	2.7487	2.9000e-004	4.4000e-004	2.8874
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	5.7000e-004	3.9000e-004	5.8100e-003	2.0000e-005	2.3500e-003	1.0000e-005	2.3700e-003	6.3000e-004	1.0000e-005	6.4000e-004	0.0000	1.7336	1.7336	4.0000e-005	4.0000e-005	1.7466
<b>Total</b>	<b>6.5000e-004</b>	<b>6.0600e-003</b>	<b>7.5300e-003</b>	<b>5.0000e-005</b>	<b>3.1900e-003</b>	<b>5.0000e-005</b>	<b>3.2500e-003</b>	<b>8.6000e-004</b>	<b>5.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>4.4824</b>	<b>4.4824</b>	<b>3.3000e-004</b>	<b>4.8000e-004</b>	<b>4.6341</b>

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0828	0.0000	0.0828	8.9800e-003	0.0000	8.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7353	0.5368	1.4800e-003		0.0282	0.0282		0.0260	0.0260	0.0000	129.9864	129.9864	0.0420	0.0000	131.0374
<b>Total</b>	<b>0.0724</b>	<b>0.7353</b>	<b>0.5368</b>	<b>1.4800e-003</b>	<b>0.0828</b>	<b>0.0282</b>	<b>0.1110</b>	<b>8.9800e-003</b>	<b>0.0260</b>	<b>0.0350</b>	<b>0.0000</b>	<b>129.9864</b>	<b>129.9864</b>	<b>0.0420</b>	<b>0.0000</b>	<b>131.0374</b>

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

**3.3 Grading - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1800e-003	0.4140	0.1208	1.9700e-003	0.0630	2.9200e-003	0.0659	0.0173	2.7900e-003	0.0201	0.0000	204.5772	204.5772	0.0215	0.0329	214.9043
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	1.0500e-003	7.2000e-004	0.0107	3.0000e-005	4.3500e-003	2.0000e-005	4.3700e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.2006	3.2006	7.0000e-005	7.0000e-005	3.2246
<b>Total</b>	<b>6.2300e-003</b>	<b>0.4148</b>	<b>0.1315</b>	<b>2.0000e-003</b>	<b>0.0673</b>	<b>2.9400e-003</b>	<b>0.0703</b>	<b>0.0184</b>	<b>2.8100e-003</b>	<b>0.0212</b>	<b>0.0000</b>	<b>207.7777</b>	<b>207.7777</b>	<b>0.0216</b>	<b>0.0329</b>	<b>218.1288</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					0.0307	0.0000	0.0307	3.3300e-003	0.0000	3.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0724	0.7353	0.5368	1.4800e-003		0.0282	0.0282		0.0260	0.0260	0.0000	129.9862	129.9862	0.0420	0.0000	131.0372
<b>Total</b>	<b>0.0724</b>	<b>0.7353</b>	<b>0.5368</b>	<b>1.4800e-003</b>	<b>0.0307</b>	<b>0.0282</b>	<b>0.0589</b>	<b>3.3300e-003</b>	<b>0.0260</b>	<b>0.0293</b>	<b>0.0000</b>	<b>129.9862</b>	<b>129.9862</b>	<b>0.0420</b>	<b>0.0000</b>	<b>131.0372</b>

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

**3.3 Grading - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.1800e-003	0.4140	0.1208	1.9700e-003	0.0630	2.9200e-003	0.0659	0.0173	2.7900e-003	0.0201	0.0000	204.5772	204.5772	0.0215	0.0329	214.9043
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	1.0500e-003	7.2000e-004	0.0107	3.0000e-005	4.3500e-003	2.0000e-005	4.3700e-003	1.1500e-003	2.0000e-005	1.1700e-003	0.0000	3.2006	3.2006	7.0000e-005	7.0000e-005	3.2246
<b>Total</b>	<b>6.2300e-003</b>	<b>0.4148</b>	<b>0.1315</b>	<b>2.0000e-003</b>	<b>0.0673</b>	<b>2.9400e-003</b>	<b>0.0703</b>	<b>0.0184</b>	<b>2.8100e-003</b>	<b>0.0212</b>	<b>0.0000</b>	<b>207.7777</b>	<b>207.7777</b>	<b>0.0216</b>	<b>0.0329</b>	<b>218.1288</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1401	1.4526	1.0147	2.8400e-003		0.0553	0.0553		0.0509	0.0509	0.0000	249.1647	249.1647	0.0806	0.0000	251.1793
<b>Total</b>	<b>0.1401</b>	<b>1.4526</b>	<b>1.0147</b>	<b>2.8400e-003</b>		<b>0.0553</b>	<b>0.0553</b>		<b>0.0509</b>	<b>0.0509</b>	<b>0.0000</b>	<b>249.1647</b>	<b>249.1647</b>	<b>0.0806</b>	<b>0.0000</b>	<b>251.1793</b>



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

**3.4 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7600e-003	0.3657	0.1462	1.7700e-003	0.0629	1.8800e-003	0.0648	0.0182	1.8000e-003	0.0200	0.0000	176.2799	176.2799	0.0107	0.0254	184.1233
Worker	0.1064	0.0726	1.0852	3.5300e-003	0.4397	2.1700e-003	0.4419	0.1168	2.0000e-003	0.1188	0.0000	323.7132	323.7132	7.0600e-003	7.5500e-003	326.1393
<b>Total</b>	<b>0.1162</b>	<b>0.4382</b>	<b>1.2314</b>	<b>5.3000e-003</b>	<b>0.5026</b>	<b>4.0500e-003</b>	<b>0.5067</b>	<b>0.1349</b>	<b>3.8000e-003</b>	<b>0.1387</b>	<b>0.0000</b>	<b>499.9931</b>	<b>499.9931</b>	<b>0.0178</b>	<b>0.0330</b>	<b>510.2626</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	0.1401	1.4526	1.0147	2.8400e-003		0.0553	0.0553		0.0509	0.0509	0.0000	249.1644	249.1644	0.0806	0.0000	251.1790
<b>Total</b>	<b>0.1401</b>	<b>1.4526</b>	<b>1.0147</b>	<b>2.8400e-003</b>		<b>0.0553</b>	<b>0.0553</b>		<b>0.0509</b>	<b>0.0509</b>	<b>0.0000</b>	<b>249.1644</b>	<b>249.1644</b>	<b>0.0806</b>	<b>0.0000</b>	<b>251.1790</b>

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

**3.4 Building Construction - 2024**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7600e-003	0.3657	0.1462	1.7700e-003	0.0629	1.8800e-003	0.0648	0.0182	1.8000e-003	0.0200	0.0000	176.2799	176.2799	0.0107	0.0254	184.1233
Worker	0.1064	0.0726	1.0852	3.5300e-003	0.4397	2.1700e-003	0.4419	0.1168	2.0000e-003	0.1188	0.0000	323.7132	323.7132	7.0600e-003	7.5500e-003	326.1393
<b>Total</b>	<b>0.1162</b>	<b>0.4382</b>	<b>1.2314</b>	<b>5.3000e-003</b>	<b>0.5026</b>	<b>4.0500e-003</b>	<b>0.5067</b>	<b>0.1349</b>	<b>3.8000e-003</b>	<b>0.1387</b>	<b>0.0000</b>	<b>499.9931</b>	<b>499.9931</b>	<b>0.0178</b>	<b>0.0330</b>	<b>510.2626</b>

**3.4 Building Construction - 2025**

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1760	1.7134	1.3432	4.0000e-003		0.0649	0.0649		0.0597	0.0597	0.0000	351.3828	351.3828	0.1136	0.0000	354.2239
<b>Total</b>	<b>0.1760</b>	<b>1.7134</b>	<b>1.3432</b>	<b>4.0000e-003</b>		<b>0.0649</b>	<b>0.0649</b>		<b>0.0597</b>	<b>0.0597</b>	<b>0.0000</b>	<b>351.3828</b>	<b>351.3828</b>	<b>0.1136</b>	<b>0.0000</b>	<b>354.2239</b>

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

**3.4 Building Construction - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0136	0.5133	0.2054	2.4400e-003	0.0888	2.6700e-003	0.0915	0.0256	2.5600e-003	0.0282	0.0000	244.0450	244.0450	0.0154	0.0353	254.9594
Worker	0.1418	0.0927	1.4379	4.8100e-003	0.6203	2.9200e-003	0.6233	0.1647	2.6900e-003	0.1674	0.0000	441.1813	441.1813	9.0600e-003	0.0100	444.3924
<b>Total</b>	<b>0.1554</b>	<b>0.6060</b>	<b>1.6433</b>	<b>7.2500e-003</b>	<b>0.7091</b>	<b>5.5900e-003</b>	<b>0.7147</b>	<b>0.1904</b>	<b>5.2500e-003</b>	<b>0.1956</b>	<b>0.0000</b>	<b>685.2262</b>	<b>685.2262</b>	<b>0.0244</b>	<b>0.0454</b>	<b>699.3518</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	0.1760	1.7134	1.3432	4.0000e-003		0.0649	0.0649		0.0597	0.0597	0.0000	351.3824	351.3824	0.1136	0.0000	354.2235
<b>Total</b>	<b>0.1760</b>	<b>1.7134</b>	<b>1.3432</b>	<b>4.0000e-003</b>		<b>0.0649</b>	<b>0.0649</b>		<b>0.0597</b>	<b>0.0597</b>	<b>0.0000</b>	<b>351.3824</b>	<b>351.3824</b>	<b>0.1136</b>	<b>0.0000</b>	<b>354.2235</b>

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

**3.4 Building Construction - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0136	0.5133	0.2054	2.4400e-003	0.0888	2.6700e-003	0.0915	0.0256	2.5600e-003	0.0282	0.0000	244.0450	244.0450	0.0154	0.0353	254.9594
Worker	0.1418	0.0927	1.4379	4.8100e-003	0.6203	2.9200e-003	0.6233	0.1647	2.6900e-003	0.1674	0.0000	441.1813	441.1813	9.0600e-003	0.0100	444.3924
<b>Total</b>	<b>0.1554</b>	<b>0.6060</b>	<b>1.6433</b>	<b>7.2500e-003</b>	<b>0.7091</b>	<b>5.5900e-003</b>	<b>0.7147</b>	<b>0.1904</b>	<b>5.2500e-003</b>	<b>0.1956</b>	<b>0.0000</b>	<b>685.2262</b>	<b>685.2262</b>	<b>0.0244</b>	<b>0.0454</b>	<b>699.3518</b>

**3.4 Building Construction - 2026**

**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	0.0553	0.5383	0.4220	1.2600e-003		0.0204	0.0204		0.0188	0.0188	0.0000	110.3961	110.3961	0.0357	0.0000	111.2887
<b>Total</b>	<b>0.0553</b>	<b>0.5383</b>	<b>0.4220</b>	<b>1.2600e-003</b>		<b>0.0204</b>	<b>0.0204</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>110.3961</b>	<b>110.3961</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.2887</b>

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

**3.4 Building Construction - 2026**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-003	0.1601	0.0643	7.5000e-004	0.0279	8.4000e-004	0.0287	8.0500e-003	8.0000e-004	8.8500e-003	0.0000	75.2048	75.2048	4.8800e-003	0.0109	78.5845
Worker	0.0423	0.0266	0.4272	1.4700e-003	0.1949	8.7000e-004	0.1958	0.0518	8.0000e-004	0.0526	0.0000	134.3437	134.3437	2.6000e-003	2.9800e-003	135.2978
<b>Total</b>	<b>0.0465</b>	<b>0.1867</b>	<b>0.4915</b>	<b>2.2200e-003</b>	<b>0.2228</b>	<b>1.7100e-003</b>	<b>0.2245</b>	<b>0.0598</b>	<b>1.6000e-003</b>	<b>0.0614</b>	<b>0.0000</b>	<b>209.5485</b>	<b>209.5485</b>	<b>7.4800e-003</b>	<b>0.0139</b>	<b>213.8822</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	0.0553	0.5383	0.4220	1.2600e-003		0.0204	0.0204		0.0188	0.0188	0.0000	110.3960	110.3960	0.0357	0.0000	111.2886
<b>Total</b>	<b>0.0553</b>	<b>0.5383</b>	<b>0.4220</b>	<b>1.2600e-003</b>		<b>0.0204</b>	<b>0.0204</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>110.3960</b>	<b>110.3960</b>	<b>0.0357</b>	<b>0.0000</b>	<b>111.2886</b>

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**3.4 Building Construction - 2026**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2000e-003	0.1601	0.0643	7.5000e-004	0.0279	8.4000e-004	0.0287	8.0500e-003	8.0000e-004	8.8500e-003	0.0000	75.2048	75.2048	4.8800e-003	0.0109	78.5845
Worker	0.0423	0.0266	0.4272	1.4700e-003	0.1949	8.7000e-004	0.1958	0.0518	8.0000e-004	0.0526	0.0000	134.3437	134.3437	2.6000e-003	2.9800e-003	135.2978
<b>Total</b>	<b>0.0465</b>	<b>0.1867</b>	<b>0.4915</b>	<b>2.2200e-003</b>	<b>0.2228</b>	<b>1.7100e-003</b>	<b>0.2245</b>	<b>0.0598</b>	<b>1.6000e-003</b>	<b>0.0614</b>	<b>0.0000</b>	<b>209.5485</b>	<b>209.5485</b>	<b>7.4800e-003</b>	<b>0.0139</b>	<b>213.8822</b>

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5000e-003	0.0838	0.0733	1.9000e-004		3.1000e-003	3.1000e-003		2.8700e-003	2.8700e-003	0.0000	16.2240	16.2240	5.0900e-003	0.0000	16.3511
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7600e-003</b>	<b>0.0838</b>	<b>0.0733</b>	<b>1.9000e-004</b>		<b>3.1000e-003</b>	<b>3.1000e-003</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>16.2240</b>	<b>16.2240</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>16.3511</b>

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**3.5 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.2000e-004	3.3600e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0306	1.0306	2.0000e-005	2.0000e-005	1.0381
<b>Total</b>	<b>3.3000e-004</b>	<b>2.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>1.0000e-005</b>	<b>1.4600e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.0306</b>	<b>1.0306</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0381</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	8.5000e-003	0.0838	0.0733	1.9000e-004		3.1000e-003	3.1000e-003		2.8700e-003	2.8700e-003	0.0000	16.2240	16.2240	5.0900e-003	0.0000	16.3511
Paving	2.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7600e-003</b>	<b>0.0838</b>	<b>0.0733</b>	<b>1.9000e-004</b>		<b>3.1000e-003</b>	<b>3.1000e-003</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>16.2240</b>	<b>16.2240</b>	<b>5.0900e-003</b>	<b>0.0000</b>	<b>16.3511</b>

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

**3.5 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.2000e-004	3.3600e-003	1.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0306	1.0306	2.0000e-005	2.0000e-005	1.0381
<b>Total</b>	<b>3.3000e-004</b>	<b>2.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.4500e-003</b>	<b>1.0000e-005</b>	<b>1.4600e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.0306</b>	<b>1.0306</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0381</b>

**3.6 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6400e-003	0.0378	0.0597	1.0000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	8.4257	8.4257	4.6000e-004	0.0000	8.4372
<b>Total</b>	<b>1.0184</b>	<b>0.0378</b>	<b>0.0597</b>	<b>1.0000e-004</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>8.4372</b>



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**3.6 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2100e-003	4.7100e-003	0.0731	2.4000e-004	0.0315	1.5000e-004	0.0317	8.3700e-003	1.4000e-004	8.5100e-003	0.0000	22.4157	22.4157	4.6000e-004	5.1000e-004	22.5788
<b>Total</b>	<b>7.2100e-003</b>	<b>4.7100e-003</b>	<b>0.0731</b>	<b>2.4000e-004</b>	<b>0.0315</b>	<b>1.5000e-004</b>	<b>0.0317</b>	<b>8.3700e-003</b>	<b>1.4000e-004</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>22.4157</b>	<b>22.4157</b>	<b>4.6000e-004</b>	<b>5.1000e-004</b>	<b>22.5788</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	1.0128					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6400e-003	0.0378	0.0597	1.0000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	8.4257	8.4257	4.6000e-004	0.0000	8.4372
<b>Total</b>	<b>1.0184</b>	<b>0.0378</b>	<b>0.0597</b>	<b>1.0000e-004</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>		<b>1.7000e-003</b>	<b>1.7000e-003</b>	<b>0.0000</b>	<b>8.4257</b>	<b>8.4257</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>8.4372</b>

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

**3.6 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2100e-003	4.7100e-003	0.0731	2.4000e-004	0.0315	1.5000e-004	0.0317	8.3700e-003	1.4000e-004	8.5100e-003	0.0000	22.4157	22.4157	4.6000e-004	5.1000e-004	22.5788
<b>Total</b>	<b>7.2100e-003</b>	<b>4.7100e-003</b>	<b>0.0731</b>	<b>2.4000e-004</b>	<b>0.0315</b>	<b>1.5000e-004</b>	<b>0.0317</b>	<b>8.3700e-003</b>	<b>1.4000e-004</b>	<b>8.5100e-003</b>	<b>0.0000</b>	<b>22.4157</b>	<b>22.4157</b>	<b>4.6000e-004</b>	<b>5.1000e-004</b>	<b>22.5788</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8555	0.9355	8.7645	0.0206	2.4347	0.0140	2.4487	0.6499	0.0130	0.6629	0.0000	1,908.4543	1,908.4543	0.1164	0.0803	1,935.2816
Unmitigated	0.8555	0.9355	8.7645	0.0206	2.4347	0.0140	2.4487	0.6499	0.0130	0.6629	0.0000	1,908.4543	1,908.4543	0.1164	0.0803	1,935.2816

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,518.04	338.70	310.23	6,462,862	6,462,862
City Park	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,518.04</b>	<b>338.70</b>	<b>310.23</b>	<b>6,462,862</b>	<b>6,462,862</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Unenclosed Parking with	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

**4.4 Fleet Mix**

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
City Park	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Unenclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

**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	459.0652	459.0652	0.0281	3.4000e-003	460.7800
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	459.0652	459.0652	0.0281	3.4000e-003	460.7800
NaturalGas Mitigated	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5089	135.5089	2.6000e-003	2.4800e-003	136.3142
NaturalGas Unmitigated	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5089	135.5089	2.6000e-003	2.4800e-003	136.3142

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.53934e+006	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5089	135.5089	2.6000e-003	2.4800e-003	136.3142
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0137</b>	<b>0.1170</b>	<b>0.0498</b>	<b>7.5000e-004</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>	<b>0.0000</b>	<b>135.5089</b>	<b>135.5089</b>	<b>2.6000e-003</b>	<b>2.4800e-003</b>	<b>136.3142</b>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.53934e+006	0.0137	0.1170	0.0498	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5089	135.5089	2.6000e-003	2.4800e-003	136.3142
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0137</b>	<b>0.1170</b>	<b>0.0498</b>	<b>7.5000e-004</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>		<b>9.4600e-003</b>	<b>9.4600e-003</b>	<b>0.0000</b>	<b>135.5089</b>	<b>135.5089</b>	<b>2.6000e-003</b>	<b>2.4800e-003</b>	<b>136.3142</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.34021e+006	328.2584	0.0201	2.4300e-003	329.4846
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	5600	1.3716	8.0000e-005	1.0000e-005	1.3767
Unenclosed Parking with Elevator	528456	129.4352	7.9100e-003	9.6000e-004	129.9186
<b>Total</b>		<b>459.0652</b>	<b>0.0281</b>	<b>3.4000e-003</b>	<b>460.7800</b>

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

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.34021e+006	328.2584	0.0201	2.4300e-003	329.4846
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	5600	1.3716	8.0000e-005	1.0000e-005	1.3767
Unenclosed Parking with Elevator	528456	129.4352	7.9100e-003	9.6000e-004	129.9186
<b>Total</b>		<b>459.0652</b>	<b>0.0281</b>	<b>3.4000e-003</b>	<b>460.7800</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3843	0.1066	3.6326	6.1000e-004		0.0253	0.0253		0.0253	0.0253	0.0000	81.3242	81.3242	7.1200e-003	1.3800e-003	81.9143
Unmitigated	2.5198	0.1320	5.8235	5.8500e-003		0.3532	0.3532		0.3532	0.3532	37.0705	77.1338	114.2042	0.1162	2.5200e-003	117.8597

**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	0.1013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.1431	0.0905	2.2186	5.6600e-003		0.3332	0.3332		0.3332	0.3332	37.0705	71.2367	108.3071	0.1106	2.5200e-003	111.8207
Landscaping	0.1088	0.0415	3.6049	1.9000e-004		0.0200	0.0200		0.0200	0.0200	0.0000	5.8971	5.8971	5.6800e-003	0.0000	6.0390
<b>Total</b>	<b>2.5198</b>	<b>0.1320</b>	<b>5.8235</b>	<b>5.8500e-003</b>		<b>0.3532</b>	<b>0.3532</b>		<b>0.3532</b>	<b>0.3532</b>	<b>37.0705</b>	<b>77.1338</b>	<b>114.2042</b>	<b>0.1162</b>	<b>2.5200e-003</b>	<b>117.8597</b>

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

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1666					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.6200e-003	0.0651	0.0277	4.2000e-004		5.2700e-003	5.2700e-003		5.2700e-003	5.2700e-003	0.0000	75.4271	75.4271	1.4500e-003	1.3800e-003	75.8753
Landscaping	0.1088	0.0415	3.6049	1.9000e-004		0.0200	0.0200		0.0200	0.0200	0.0000	5.8971	5.8971	5.6800e-003	0.0000	6.0390
<b>Total</b>	<b>1.3843</b>	<b>0.1066</b>	<b>3.6326</b>	<b>6.1000e-004</b>		<b>0.0253</b>	<b>0.0253</b>		<b>0.0253</b>	<b>0.0253</b>	<b>0.0000</b>	<b>81.3241</b>	<b>81.3241</b>	<b>7.1300e-003</b>	<b>1.3800e-003</b>	<b>81.9143</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

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	113.5275	0.5993	0.0148	132.9197
Unmitigated	129.4742	0.7484	0.0184	153.6680

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	22.7388 / 14.3353	118.7424	0.7478	0.0183	142.8961
City Park	0 / 3.9438	10.7318	6.6000e-004	8.0000e-005	10.7719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>129.4742</b>	<b>0.7484</b>	<b>0.0184</b>	<b>153.6680</b>

Victoria Blvd Apt - Orange County, Annual

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	18.191 / 14.3353	102.7957	0.5987	0.0147	122.1478
City Park	0 / 3.9438	10.7318	6.6000e-004	8.0000e-005	10.7719
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>113.5275</b>	<b>0.5993</b>	<b>0.0148</b>	<b>132.9197</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

Victoria Blvd Apt - Orange County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.3225	0.9646	0.0000	40.4383
Unmitigated	32.6450	1.9293	0.0000	80.8766

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	160.54	32.5882	1.9259	0.0000	80.7358
City Park	0.28	0.0568	3.3600e-003	0.0000	0.1408
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>32.6450</b>	<b>1.9293</b>	<b>0.0000</b>	<b>80.8766</b>

Victoria Blvd Apt - Orange County, Annual

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

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	80.27	16.2941	0.9630	0.0000	40.3679
City Park	0.14	0.0284	1.6800e-003	0.0000	0.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>16.3225</b>	<b>0.9646</b>	<b>0.0000</b>	<b>40.4383</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Victoria Blvd Apt - Orange County, Annual

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

Equipment Type	Number
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**11.0 Vegetation**

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Victoria Blvd Apt - Orange County, Summer

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

**Victoria Blvd Apt  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	681.00	Space	0.60	272,400.00	0
City Park	3.31	Acre	3.31	144,183.60	0
Apartments Mid Rise	349.00	Dwelling Unit	1.40	317,300.00	998
Parking Lot	40.00	Space	0.20	16,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	13			<b>Operational Year</b>	2026
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Per site plan date July 2022

Construction Phase - Per AQ Questionnaire

Off-road Equipment - Default

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire

Off-road Equipment - per AQ Questionnaire



Victoria Blvd Apt - Orange County, Summer

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

Trips and VMT - per AQ questionnaire

Demolition - Per CalEEMod Appendix A, 108,000 building volume ft<sup>3</sup> =27,000 waste volume ft<sup>3</sup> = 1000 waste volume yd<sup>3</sup> = 500 tons waste

Grading - per site plan

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Apartment mid rise per traffic study; "city park" represents proposed landscaping/open space and doesn't generate trips.

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - per SCAQMD Rule 445

Water Mitigation - per CALGreen

Waste Mitigation - per AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	528.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	PhaseEndDate	6/28/2024	2/14/2024
tblConstructionPhase	PhaseEndDate	7/26/2024	4/16/2024
tblConstructionPhase	PhaseEndDate	6/13/2025	4/24/2026
tblConstructionPhase	PhaseEndDate	7/11/2025	7/16/2025
tblConstructionPhase	PhaseEndDate	8/8/2025	12/31/2025

Victoria Blvd Apt - Orange County, Summer

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

tblConstructionPhase	PhaseStartDate	6/1/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2024	2/15/2024
tblConstructionPhase	PhaseStartDate	7/27/2024	4/17/2024
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	7/12/2025	10/1/2025
tblGrading	MaterialExported	0.00	19,585.00
tblLandUse	LandUseSquareFeet	349,000.00	317,300.00
tblLandUse	LotAcreage	6.13	0.60
tblLandUse	LotAcreage	9.18	1.40
tblLandUse	LotAcreage	0.36	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Pavers
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Pavers	Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblVehicleTrips	ST_TR	4.91	0.97
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	4.09	0.89
tblVehicleTrips	SU_TR	2.19	0.00

Victoria Blvd Apt - Orange County, Summer

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

tblVehicleTrips	WD_TR	5.44	7.22
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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Victoria Blvd Apt - Orange County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.5744	51.2997	30.3936	0.1585	6.8717	1.4172	8.2889	1.4823	1.3087	2.5667	0.0000	16,928.1302	16,928.1302	3.1894	1.6490	17,499.2678
2025	33.6138	22.6114	28.0493	0.0996	6.5029	0.7280	7.0988	1.7402	0.6717	2.2933	0.0000	10,044.2082	10,044.2082	1.5055	0.3923	10,194.4944
2026	2.4781	17.4380	22.7581	0.0860	5.5305	0.5388	6.0692	1.4823	0.4964	1.9787	0.0000	8,730.5248	8,730.5248	1.1594	0.3680	8,869.1584
<b>Maximum</b>	<b>33.6138</b>	<b>51.2997</b>	<b>30.3936</b>	<b>0.1585</b>	<b>6.8717</b>	<b>1.4172</b>	<b>8.2889</b>	<b>1.7402</b>	<b>1.3087</b>	<b>2.5667</b>	<b>0.0000</b>	<b>16,928.1302</b>	<b>16,928.1302</b>	<b>3.1894</b>	<b>1.6490</b>	<b>17,499.2678</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.5744	51.2997	30.3936	0.1585	5.5305	1.4172	6.1717	1.4823	1.3087	2.3096	0.0000	16,928.1302	16,928.1302	3.1894	1.6490	17,499.2678
2025	33.6138	22.6114	28.0493	0.0996	6.5029	0.7280	7.0988	1.7402	0.6717	2.2933	0.0000	10,044.2082	10,044.2082	1.5055	0.3923	10,194.4944
2026	2.4781	17.4380	22.7581	0.0860	5.5305	0.5388	6.0692	1.4823	0.4964	1.9787	0.0000	8,730.5248	8,730.5248	1.1594	0.3680	8,869.1584
<b>Maximum</b>	<b>33.6138</b>	<b>51.2997</b>	<b>30.3936</b>	<b>0.1585</b>	<b>6.5029</b>	<b>1.4172</b>	<b>7.0988</b>	<b>1.7402</b>	<b>1.3087</b>	<b>2.3096</b>	<b>0.0000</b>	<b>16,928.1302</b>	<b>16,928.1302</b>	<b>3.1894</b>	<b>1.6490</b>	<b>17,499.2678</b>

Victoria Blvd Apt - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	7.09	0.00	9.87	0.00	0.00	3.76	0.00	0.00	0.00	0.00	0.00	0.00

Victoria Blvd Apt - Orange County, Summer

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	99.2681	7.5732	206.3240	0.4543		26.8194	26.8194		26.8194	26.8194	3,269.0545	6,334.0033	9,603.0578	9.7990	0.2219	9,914.1534
Energy	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
Mobile	6.4421	6.2865	64.3332	0.1555	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,843.1722	15,843.1722	0.9165	0.6188	16,050.4976
<b>Total</b>	<b>105.7852</b>	<b>14.5008</b>	<b>270.9301</b>	<b>0.6139</b>	<b>18.1312</b>	<b>26.9738</b>	<b>45.1050</b>	<b>4.8328</b>	<b>26.9666</b>	<b>31.7994</b>	<b>3,269.0545</b>	<b>22,995.6578</b>	<b>26,264.7124</b>	<b>10.7312</b>	<b>0.8557</b>	<b>26,787.9972</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	8.4273	5.5424	31.0566	0.0348		0.5811	0.5811		0.5811	0.5811	0.0000	6,703.5327	6,703.5327	0.1776	0.1219	6,744.3109
Energy	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
Mobile	6.4421	6.2865	64.3332	0.1555	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,843.1722	15,843.1722	0.9165	0.6188	16,050.4976
<b>Total</b>	<b>14.9444</b>	<b>12.4700</b>	<b>95.6627</b>	<b>0.1944</b>	<b>18.1312</b>	<b>0.7355</b>	<b>18.8667</b>	<b>4.8328</b>	<b>0.7283</b>	<b>5.5612</b>	<b>0.0000</b>	<b>23,365.1873</b>	<b>23,365.1873</b>	<b>1.1098</b>	<b>0.7558</b>	<b>23,618.1547</b>

Victoria Blvd Apt - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.87	14.00	64.69	68.34	0.00	97.27	58.17	0.00	97.30	82.51	100.00	-1.61	11.04	89.66	11.68	11.83

**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	1/1/2024	2/14/2024	5	33	
2	Grading	Grading	2/15/2024	4/16/2024	5	44	
3	Building Construction	Building Construction	4/17/2024	4/24/2026	5	528	
4	Paving	Paving	6/1/2025	7/16/2025	5	33	
5	Architectural Coating	Architectural Coating	10/1/2025	12/31/2025	5	66	

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

**Acres of Grading (Grading Phase): 154**

**Acres of Paving: 0.8**

**Residential Indoor: 642,533; Residential Outdoor: 214,178; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 17,304 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Pavers	1	8.00	130	0.42
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Scrapers	1	8.00	367	0.48
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Grading	Graders	1	8.00	187	0.41

Victoria Blvd Apt - Orange County, Summer

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

Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	8.00	367	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Signal Boards	1	8.00	6	0.82
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	2,448.00	14.70	6.90	60.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	433.00	108.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads



Victoria Blvd Apt - Orange County, Summer

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

**3.2 Demolition - 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					
Fugitive Dust					0.3242	0.0000	0.3242	0.0491	0.0000	0.0491			0.0000			0.0000
Off-Road	2.5878	26.0206	16.6182	0.0432		1.1057	1.1057		1.0173	1.0173		4,183.7363	4,183.7363	1.3531		4,217.5639
<b>Total</b>	<b>2.5878</b>	<b>26.0206</b>	<b>16.6182</b>	<b>0.0432</b>	<b>0.3242</b>	<b>1.1057</b>	<b>1.4300</b>	<b>0.0491</b>	<b>1.0173</b>	<b>1.0664</b>		<b>4,183.7363</b>	<b>4,183.7363</b>	<b>1.3531</b>		<b>4,217.5639</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7100e-003	0.3260	0.1042	1.6100e-003	0.0518	2.3600e-003	0.0541	0.0142	2.2600e-003	0.0164		183.5961	183.5961	0.0193	0.0295	192.8612
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
<b>Total</b>	<b>0.0391</b>	<b>0.3470</b>	<b>0.4736</b>	<b>2.8000e-003</b>	<b>0.1971</b>	<b>3.0600e-003</b>	<b>0.2001</b>	<b>0.0527</b>	<b>2.9100e-003</b>	<b>0.0556</b>		<b>303.5971</b>	<b>303.5971</b>	<b>0.0217</b>	<b>0.0320</b>	<b>313.6702</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1201	0.0000	0.1201	0.0182	0.0000	0.0182			0.0000			0.0000
Off-Road	2.5878	26.0206	16.6182	0.0432		1.1057	1.1057		1.0173	1.0173	0.0000	4,183.7363	4,183.7363	1.3531		4,217.5639
<b>Total</b>	<b>2.5878</b>	<b>26.0206</b>	<b>16.6182</b>	<b>0.0432</b>	<b>0.1201</b>	<b>1.1057</b>	<b>1.2259</b>	<b>0.0182</b>	<b>1.0173</b>	<b>1.0355</b>	<b>0.0000</b>	<b>4,183.7363</b>	<b>4,183.7363</b>	<b>1.3531</b>		<b>4,217.5639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.7100e-003	0.3260	0.1042	1.6100e-003	0.0518	2.3600e-003	0.0541	0.0142	2.2600e-003	0.0164		183.5961	183.5961	0.0193	0.0295	192.8612
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
<b>Total</b>	<b>0.0391</b>	<b>0.3470</b>	<b>0.4736</b>	<b>2.8000e-003</b>	<b>0.1971</b>	<b>3.0600e-003</b>	<b>0.2001</b>	<b>0.0527</b>	<b>2.9100e-003</b>	<b>0.0556</b>		<b>303.5971</b>	<b>303.5971</b>	<b>0.0217</b>	<b>0.0320</b>	<b>313.6702</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7621	0.0000	3.7621	0.4084	0.0000	0.4084			0.0000			0.0000
Off-Road	3.2885	33.4226	24.3996	0.0673		1.2837	1.2837		1.1810	1.1810		6,512.975 4	6,512.975 4	2.1064		6,565.636 1
<b>Total</b>	<b>3.2885</b>	<b>33.4226</b>	<b>24.3996</b>	<b>0.0673</b>	<b>3.7621</b>	<b>1.2837</b>	<b>5.0458</b>	<b>0.4084</b>	<b>1.1810</b>	<b>1.5894</b>		<b>6,512.975 4</b>	<b>6,512.975 4</b>	<b>2.1064</b>		<b>6,565.636 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2383	17.8480	5.4826	0.0896	2.9084	0.1325	3.0409	0.7962	0.1268	0.9230		10,248.99 96	10,248.99 96	1.0796	1.6455	10,766.35 77
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0291	0.5115	1.6400e- 003	0.2012	9.7000e- 004	0.2022	0.0534	9.0000e- 004	0.0543		166.1553	166.1553	3.4200e- 003	3.4700e- 003	167.2740
<b>Total</b>	<b>0.2859</b>	<b>17.8771</b>	<b>5.9941</b>	<b>0.0912</b>	<b>3.1096</b>	<b>0.1335</b>	<b>3.2431</b>	<b>0.8496</b>	<b>0.1277</b>	<b>0.9773</b>		<b>10,415.15 49</b>	<b>10,415.15 49</b>	<b>1.0830</b>	<b>1.6490</b>	<b>10,933.63 17</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.3 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3939	0.0000	1.3939	0.1513	0.0000	0.1513			0.0000			0.0000
Off-Road	3.2885	33.4226	24.3996	0.0673		1.2837	1.2837		1.1810	1.1810	0.0000	6,512.975 4	6,512.975 4	2.1064		6,565.636 1
<b>Total</b>	<b>3.2885</b>	<b>33.4226</b>	<b>24.3996</b>	<b>0.0673</b>	<b>1.3939</b>	<b>1.2837</b>	<b>2.6776</b>	<b>0.1513</b>	<b>1.1810</b>	<b>1.3323</b>	<b>0.0000</b>	<b>6,512.975 4</b>	<b>6,512.975 4</b>	<b>2.1064</b>		<b>6,565.636 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Hauling	0.2383	17.8480	5.4826	0.0896	2.9084	0.1325	3.0409	0.7962	0.1268	0.9230			10,248.99 96	10,248.99 96	1.0796	1.6455	10,766.35 77
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0476	0.0291	0.5115	1.6400e- 003	0.2012	9.7000e- 004	0.2022	0.0534	9.0000e- 004	0.0543			166.1553	166.1553	3.4200e- 003	3.4700e- 003	167.2740
<b>Total</b>	<b>0.2859</b>	<b>17.8771</b>	<b>5.9941</b>	<b>0.0912</b>	<b>3.1096</b>	<b>0.1335</b>	<b>3.2431</b>	<b>0.8496</b>	<b>0.1277</b>	<b>0.9773</b>			<b>10,415.15 49</b>	<b>10,415.15 49</b>	<b>1.0830</b>	<b>1.6490</b>	<b>10,933.63 17</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5144	15.7035	10.9696	0.0307		0.5975	0.5975		0.5497	0.5497		2,969.2653	2,969.2653	0.9603		2,993.2733
<b>Total</b>	<b>1.5144</b>	<b>15.7035</b>	<b>10.9696</b>	<b>0.0307</b>		<b>0.5975</b>	<b>0.5975</b>		<b>0.5497</b>	<b>0.5497</b>		<b>2,969.2653</b>	<b>2,969.2653</b>	<b>0.9603</b>		<b>2,993.2733</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1074	3.7739	1.5576	0.0191	0.6906	0.0203	0.7109	0.1988	0.0194	0.2182		2,099.3727	2,099.3727	0.1281	0.3025	2,192.7238
Worker	1.1458	0.7005	12.3041	0.0395	4.8399	0.0234	4.8634	1.2836	0.0216	1.3051		3,996.9577	3,996.9577	0.0823	0.0834	4,023.8686
<b>Total</b>	<b>1.2532</b>	<b>4.4743</b>	<b>13.8617</b>	<b>0.0586</b>	<b>5.5305</b>	<b>0.0438</b>	<b>5.5742</b>	<b>1.4823</b>	<b>0.0410</b>	<b>1.5233</b>		<b>6,096.3304</b>	<b>6,096.3304</b>	<b>0.2104</b>	<b>0.3859</b>	<b>6,216.5924</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5144	15.7035	10.9696	0.0307		0.5975	0.5975		0.5497	0.5497	0.0000	2,969.265 3	2,969.265 3	0.9603		2,993.273 3
<b>Total</b>	<b>1.5144</b>	<b>15.7035</b>	<b>10.9696</b>	<b>0.0307</b>		<b>0.5975</b>	<b>0.5975</b>		<b>0.5497</b>	<b>0.5497</b>	<b>0.0000</b>	<b>2,969.265 3</b>	<b>2,969.265 3</b>	<b>0.9603</b>		<b>2,993.273 3</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1074	3.7739	1.5576	0.0191	0.6906	0.0203	0.7109	0.1988	0.0194	0.2182		2,099.372 7	2,099.372 7	0.1281	0.3025	2,192.723 8
Worker	1.1458	0.7005	12.3041	0.0395	4.8399	0.0234	4.8634	1.2836	0.0216	1.3051		3,996.957 7	3,996.957 7	0.0823	0.0834	4,023.868 6
<b>Total</b>	<b>1.2532</b>	<b>4.4743</b>	<b>13.8617</b>	<b>0.0586</b>	<b>5.5305</b>	<b>0.0438</b>	<b>5.5742</b>	<b>1.4823</b>	<b>0.0410</b>	<b>1.5233</b>		<b>6,096.330 4</b>	<b>6,096.330 4</b>	<b>0.2104</b>	<b>0.3859</b>	<b>6,216.592 4</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573		2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>		<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1059	3.7553	1.5514	0.0187	0.6905	0.0204	0.7110	0.1987	0.0196	0.2183		2,060.0704	2,060.0704	0.1298	0.2981	2,152.1489
Worker	1.0815	0.6345	11.5499	0.0382	4.8399	0.0224	4.8623	1.2836	0.0206	1.3042		3,860.8644	3,860.8644	0.0747	0.0785	3,886.1143
<b>Total</b>	<b>1.1873</b>	<b>4.3897</b>	<b>13.1013</b>	<b>0.0569</b>	<b>5.5305</b>	<b>0.0428</b>	<b>5.5733</b>	<b>1.4823</b>	<b>0.0402</b>	<b>1.5225</b>		<b>5,920.9347</b>	<b>5,920.9347</b>	<b>0.2045</b>	<b>0.3766</b>	<b>6,038.2632</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2025**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573	0.0000	2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>	<b>0.0000</b>	<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1059	3.7553	1.5514	0.0187	0.6905	0.0204	0.7110	0.1987	0.0196	0.2183		2,060.0704	2,060.0704	0.1298	0.2981	2,152.1489
Worker	1.0815	0.6345	11.5499	0.0382	4.8399	0.0224	4.8623	1.2836	0.0206	1.3042		3,860.8644	3,860.8644	0.0747	0.0785	3,886.1143
<b>Total</b>	<b>1.1873</b>	<b>4.3897</b>	<b>13.1013</b>	<b>0.0569</b>	<b>5.5305</b>	<b>0.0428</b>	<b>5.5733</b>	<b>1.4823</b>	<b>0.0402</b>	<b>1.5225</b>		<b>5,920.9347</b>	<b>5,920.9347</b>	<b>0.2045</b>	<b>0.3766</b>	<b>6,038.2632</b>



Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2026**

**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	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573		2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>		<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1043	3.7283	1.5464	0.0183	0.6905	0.0204	0.7110	0.1987	0.0195	0.2183		2,020.5942	2,020.5942	0.1312	0.2935	2,111.3488
Worker	1.0253	0.5805	10.9188	0.0370	4.8399	0.0213	4.8612	1.2836	0.0196	1.3032		3,741.8602	3,741.8602	0.0683	0.0744	3,765.7408
<b>Total</b>	<b>1.1296</b>	<b>4.3088</b>	<b>12.4652</b>	<b>0.0553</b>	<b>5.5305</b>	<b>0.0417</b>	<b>5.5722</b>	<b>1.4823</b>	<b>0.0391</b>	<b>1.5215</b>		<b>5,762.4543</b>	<b>5,762.4543</b>	<b>0.1995</b>	<b>0.3680</b>	<b>5,877.0895</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.4 Building Construction - 2026**

**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	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573	0.0000	2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>	<b>0.0000</b>	<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1043	3.7283	1.5464	0.0183	0.6905	0.0204	0.7110	0.1987	0.0195	0.2183		2,020.5942	2,020.5942	0.1312	0.2935	2,111.3488
Worker	1.0253	0.5805	10.9188	0.0370	4.8399	0.0213	4.8612	1.2836	0.0196	1.3032		3,741.8602	3,741.8602	0.0683	0.0744	3,765.7408
<b>Total</b>	<b>1.1296</b>	<b>4.3088</b>	<b>12.4652</b>	<b>0.0553</b>	<b>5.5305</b>	<b>0.0417</b>	<b>5.5722</b>	<b>1.4823</b>	<b>0.0391</b>	<b>1.5215</b>		<b>5,762.4543</b>	<b>5,762.4543</b>	<b>0.1995</b>	<b>0.3680</b>	<b>5,877.0895</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5153	5.0808	4.4416	0.0114		0.1878	0.1878		0.1739	0.1739		1,083.8706	1,083.8706	0.3397		1,092.3635
Paving	0.0159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5311</b>	<b>5.0808</b>	<b>4.4416</b>	<b>0.0114</b>		<b>0.1878</b>	<b>0.1878</b>		<b>0.1739</b>	<b>0.1739</b>		<b>1,083.8706</b>	<b>1,083.8706</b>	<b>0.3397</b>		<b>1,092.3635</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2134	7.1000e-004	0.0894	4.1000e-004	0.0898	0.0237	3.8000e-004	0.0241		71.3324	71.3324	1.3800e-003	1.4500e-003	71.7989
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2134</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.1000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>71.3324</b>	<b>71.3324</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>71.7989</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5153	5.0808	4.4416	0.0114		0.1878	0.1878		0.1739	0.1739	0.0000	1,083.8706	1,083.8706	0.3397		1,092.3635
Paving	0.0159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5311</b>	<b>5.0808</b>	<b>4.4416</b>	<b>0.0114</b>		<b>0.1878</b>	<b>0.1878</b>		<b>0.1739</b>	<b>0.1739</b>	<b>0.0000</b>	<b>1,083.8706</b>	<b>1,083.8706</b>	<b>0.3397</b>		<b>1,092.3635</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0200	0.0117	0.2134	7.1000e-004	0.0894	4.1000e-004	0.0898	0.0237	3.8000e-004	0.0241		71.3324	71.3324	1.3800e-003	1.4500e-003	71.7989
<b>Total</b>	<b>0.0200</b>	<b>0.0117</b>	<b>0.2134</b>	<b>7.1000e-004</b>	<b>0.0894</b>	<b>4.1000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>71.3324</b>	<b>71.3324</b>	<b>1.3800e-003</b>	<b>1.4500e-003</b>	<b>71.7989</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.6 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.8607</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2173	0.1275	2.3207	7.6700e-003	0.9725	4.5000e-003	0.9770	0.2579	4.1400e-003	0.2620		775.7395	775.7395	0.0150	0.0158	780.8128
<b>Total</b>	<b>0.2173</b>	<b>0.1275</b>	<b>2.3207</b>	<b>7.6700e-003</b>	<b>0.9725</b>	<b>4.5000e-003</b>	<b>0.9770</b>	<b>0.2579</b>	<b>4.1400e-003</b>	<b>0.2620</b>		<b>775.7395</b>	<b>775.7395</b>	<b>0.0150</b>	<b>0.0158</b>	<b>780.8128</b>

Victoria Blvd Apt - Orange County, Summer

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

**3.6 Architectural Coating - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.8607</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2173	0.1275	2.3207	7.6700e-003	0.9725	4.5000e-003	0.9770	0.2579	4.1400e-003	0.2620		775.7395	775.7395	0.0150	0.0158	780.8128
<b>Total</b>	<b>0.2173</b>	<b>0.1275</b>	<b>2.3207</b>	<b>7.6700e-003</b>	<b>0.9725</b>	<b>4.5000e-003</b>	<b>0.9770</b>	<b>0.2579</b>	<b>4.1400e-003</b>	<b>0.2620</b>		<b>775.7395</b>	<b>775.7395</b>	<b>0.0150</b>	<b>0.0158</b>	<b>780.8128</b>

Victoria Blvd Apt - Orange County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.4421	6.2865	64.3332	0.1555	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,843.17 22	15,843.17 22	0.9165	0.6188	16,050.49 76
Unmitigated	6.4421	6.2865	64.3332	0.1555	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,843.17 22	15,843.17 22	0.9165	0.6188	16,050.49 76

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,518.04	338.70	310.23	6,462,862	6,462,862
City Park	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,518.04</b>	<b>338.70</b>	<b>310.23</b>	<b>6,462,862</b>	<b>6,462,862</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Victoria Blvd Apt - Orange County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
City Park	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Unenclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
NaturalGas Unmitigated	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462



Victoria Blvd Apt - Orange County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6957.1	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0750</b>	<b>0.6411</b>	<b>0.2728</b>	<b>4.0900e-003</b>		<b>0.0518</b>	<b>0.0518</b>		<b>0.0518</b>	<b>0.0518</b>		<b>818.4823</b>	<b>818.4823</b>	<b>0.0157</b>	<b>0.0150</b>	<b>823.3462</b>

Victoria Blvd Apt - Orange County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.9571	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0750</b>	<b>0.6411</b>	<b>0.2728</b>	<b>4.0900e-003</b>		<b>0.0518</b>	<b>0.0518</b>		<b>0.0518</b>	<b>0.0518</b>		<b>818.4823</b>	<b>818.4823</b>	<b>0.0157</b>	<b>0.0150</b>	<b>823.3462</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

Victoria Blvd Apt - Orange County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4273	5.5424	31.0566	0.0348		0.5811	0.5811		0.5811	0.5811	0.0000	6,703.5327	6,703.5327	0.1776	0.1219	6,744.3109
Unmitigated	99.2681	7.5732	206.3240	0.4543		26.8194	26.8194		26.8194	26.8194	3,269.0545	6,334.0033	9,603.0578	9.7990	0.2219	9,914.1534

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5549					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	91.4506	7.2412	177.4846	0.4528		26.6595	26.6595		26.6595	26.6595	3,269.0545	6,282.0000	9,551.0545	9.7490	0.2219	9,860.8986
Landscaping	0.8705	0.3320	28.8394	1.5300e-003		0.1599	0.1599		0.1599	0.1599		52.0033	52.0033	0.0501		53.2548
<b>Total</b>	<b>99.2681</b>	<b>7.5732</b>	<b>206.3240</b>	<b>0.4543</b>		<b>26.8194</b>	<b>26.8194</b>		<b>26.8194</b>	<b>26.8194</b>	<b>3,269.0545</b>	<b>6,334.0033</b>	<b>9,603.0578</b>	<b>9.7990</b>	<b>0.2219</b>	<b>9,914.1534</b>

Victoria Blvd Apt - Orange County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5549					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6097	5.2104	2.2172	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,651.5294	6,651.5294	0.1275	0.1219	6,691.0561
Landscaping	0.8705	0.3320	28.8394	1.5300e-003		0.1599	0.1599		0.1599	0.1599		52.0033	52.0033	0.0501		53.2548
<b>Total</b>	<b>8.4273</b>	<b>5.5424</b>	<b>31.0566</b>	<b>0.0348</b>		<b>0.5811</b>	<b>0.5811</b>		<b>0.5811</b>	<b>0.5811</b>	<b>0.0000</b>	<b>6,703.5327</b>	<b>6,703.5327</b>	<b>0.1776</b>	<b>0.1219</b>	<b>6,744.3109</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

Victoria Blvd Apt - Orange County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Victoria Blvd Apt - Orange County, Winter

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

**Victoria Blvd Apt  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	681.00	Space	0.60	272,400.00	0
City Park	3.31	Acre	3.31	144,183.60	0
Apartments Mid Rise	349.00	Dwelling Unit	1.40	317,300.00	998
Parking Lot	40.00	Space	0.20	16,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	13			<b>Operational Year</b>	2026
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Per site plan date July 2022
- Construction Phase - Per AQ Questionnaire
- Off-road Equipment - Default
- Off-road Equipment - per AQ Questionnaire
- Off-road Equipment - per AQ Questionnaire
- Off-road Equipment - per AQ Questionnaire
- Off-road Equipment - per AQ Questionnaire

Victoria Blvd Apt - Orange County, Winter

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

Trips and VMT - per AQ questionnaire

Demolition - Per CalEEMod Appendix A, 108,000 building volume ft<sup>3</sup> =27,000 waste volume ft<sup>3</sup> = 1000 waste volume yd<sup>3</sup> = 500 tons waste

Grading - per site plan

Architectural Coating - Per SCAQMD Rule 1113

Vehicle Trips - Apartment mid rise per traffic study; "city park" represents proposed landscaping/open space and doesn't generate trips.

Area Coating - Per SCAQMD Rule 1113

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403

Area Mitigation - per SCAQMD Rule 445

Water Mitigation - per CALGreen

Waste Mitigation - per AB 341

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	528.00
tblConstructionPhase	NumDays	20.00	33.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	PhaseEndDate	6/28/2024	2/14/2024
tblConstructionPhase	PhaseEndDate	7/26/2024	4/16/2024
tblConstructionPhase	PhaseEndDate	6/13/2025	4/24/2026
tblConstructionPhase	PhaseEndDate	7/11/2025	7/16/2025
tblConstructionPhase	PhaseEndDate	8/8/2025	12/31/2025

Victoria Blvd Apt - Orange County, Winter

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

tblConstructionPhase	PhaseStartDate	6/1/2024	1/1/2024
tblConstructionPhase	PhaseStartDate	6/29/2024	2/15/2024
tblConstructionPhase	PhaseStartDate	7/27/2024	4/17/2024
tblConstructionPhase	PhaseStartDate	6/14/2025	6/1/2025
tblConstructionPhase	PhaseStartDate	7/12/2025	10/1/2025
tblGrading	MaterialExported	0.00	19,585.00
tblLandUse	LandUseSquareFeet	349,000.00	317,300.00
tblLandUse	LotAcreage	6.13	0.60
tblLandUse	LotAcreage	9.18	1.40
tblLandUse	LotAcreage	0.36	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Pavers
tblOffRoadEquipment	OffRoadEquipmentType	Cranes	Graders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Pavers	Graders
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Signal Boards
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Scrapers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Scrapers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblVehicleTrips	ST_TR	4.91	0.97
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	4.09	0.89
tblVehicleTrips	SU_TR	2.19	0.00



Victoria Blvd Apt - Orange County, Winter

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

tblVehicleTrips	WD_TR	5.44	7.22
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

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Victoria Blvd Apt - Orange County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.5722	52.0113	30.3804	0.1585	6.8717	1.4173	8.2890	1.4823	1.3088	2.5668	0.0000	16,923.42 46	16,923.42 46	3.1891	1.6498	17,494.78 92
2025	33.7396	22.8427	27.3116	0.0978	6.5029	0.7282	7.0989	1.7402	0.6718	2.2934	0.0000	9,860.083 1	9,860.083 1	1.5072	0.3990	10,012.12 02
2026	2.5800	17.6619	22.0803	0.0843	5.5305	0.5389	6.0693	1.4823	0.4965	1.9788	0.0000	8,555.737 8	8,555.737 8	1.1610	0.3733	8,696.006 0
<b>Maximum</b>	<b>33.7396</b>	<b>52.0113</b>	<b>30.3804</b>	<b>0.1585</b>	<b>6.8717</b>	<b>1.4173</b>	<b>8.2890</b>	<b>1.7402</b>	<b>1.3088</b>	<b>2.5668</b>	<b>0.0000</b>	<b>16,923.42 46</b>	<b>16,923.42 46</b>	<b>3.1891</b>	<b>1.6498</b>	<b>17,494.78 92</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	3.5722	52.0113	30.3804	0.1585	5.5305	1.4173	6.1718	1.4823	1.3088	2.3097	0.0000	16,923.42 46	16,923.42 46	3.1891	1.6498	17,494.78 92
2025	33.7396	22.8427	27.3116	0.0978	6.5029	0.7282	7.0989	1.7402	0.6718	2.2934	0.0000	9,860.083 1	9,860.083 1	1.5072	0.3990	10,012.12 02
2026	2.5800	17.6619	22.0803	0.0843	5.5305	0.5389	6.0693	1.4823	0.4965	1.9788	0.0000	8,555.737 8	8,555.737 8	1.1610	0.3733	8,696.006 0
<b>Maximum</b>	<b>33.7396</b>	<b>52.0113</b>	<b>30.3804</b>	<b>0.1585</b>	<b>6.5029</b>	<b>1.4173</b>	<b>7.0989</b>	<b>1.7402</b>	<b>1.3088</b>	<b>2.3097</b>	<b>0.0000</b>	<b>16,923.42 46</b>	<b>16,923.42 46</b>	<b>3.1891</b>	<b>1.6498</b>	<b>17,494.78 92</b>

Victoria Blvd Apt - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	7.09	0.00	9.87	0.00	0.00	3.76	0.00	0.00	0.00	0.00	0.00	0.00

Victoria Blvd Apt - Orange County, Winter

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	99.2681	7.5732	206.3240	0.4543		26.8194	26.8194		26.8194	26.8194	3,269.0545	6,334.0033	9,603.0578	9.7990	0.2219	9,914.1534
Energy	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
Mobile	6.3929	6.7478	63.7244	0.1496	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,246.3198	15,246.3198	0.9442	0.6437	15,461.7343
<b>Total</b>	<b>105.7361</b>	<b>14.9621</b>	<b>270.3213</b>	<b>0.6080</b>	<b>18.1312</b>	<b>26.9738</b>	<b>45.1050</b>	<b>4.8328</b>	<b>26.9666</b>	<b>31.7994</b>	<b>3,269.0545</b>	<b>22,398.8055</b>	<b>25,667.8600</b>	<b>10.7589</b>	<b>0.8806</b>	<b>26,199.2339</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	8.4273	5.5424	31.0566	0.0348		0.5811	0.5811		0.5811	0.5811	0.0000	6,703.5327	6,703.5327	0.1776	0.1219	6,744.3109
Energy	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
Mobile	6.3929	6.7478	63.7244	0.1496	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,246.3198	15,246.3198	0.9442	0.6437	15,461.7343
<b>Total</b>	<b>14.8952</b>	<b>12.9313</b>	<b>95.0539</b>	<b>0.1885</b>	<b>18.1312</b>	<b>0.7356</b>	<b>18.8667</b>	<b>4.8328</b>	<b>0.7284</b>	<b>5.5612</b>	<b>0.0000</b>	<b>22,768.3349</b>	<b>22,768.3349</b>	<b>1.1374</b>	<b>0.7806</b>	<b>23,029.3914</b>

Victoria Blvd Apt - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	85.91	13.57	64.84	69.00	0.00	97.27	58.17	0.00	97.30	82.51	100.00	-1.65	11.30	89.43	11.35	12.10

**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	1/1/2024	2/14/2024	5	33	
2	Grading	Grading	2/15/2024	4/16/2024	5	44	
3	Building Construction	Building Construction	4/17/2024	4/24/2026	5	528	
4	Paving	Paving	6/1/2025	7/16/2025	5	33	
5	Architectural Coating	Architectural Coating	10/1/2025	12/31/2025	5	66	

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

**Acres of Grading (Grading Phase): 154**

**Acres of Paving: 0.8**

**Residential Indoor: 642,533; Residential Outdoor: 214,178; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 17,304 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Pavers	1	8.00	130	0.42
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demolition	Scrapers	1	8.00	367	0.48
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Grading	Graders	1	8.00	187	0.41

Victoria Blvd Apt - Orange County, Winter

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

Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Building Construction	Graders	1	8.00	187	0.41
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	8.00	367	0.48
Paving	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Signal Boards	1	8.00	6	0.82
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	2,448.00	14.70	6.90	60.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	433.00	108.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	87.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Victoria Blvd Apt - Orange County, Winter

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

**3.2 Demolition - 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					
Fugitive Dust					0.3242	0.0000	0.3242	0.0491	0.0000	0.0491			0.0000			0.0000
Off-Road	2.5878	26.0206	16.6182	0.0432		1.1057	1.1057		1.0173	1.0173		4,183.7363	4,183.7363	1.3531		4,217.5639
<b>Total</b>	<b>2.5878</b>	<b>26.0206</b>	<b>16.6182</b>	<b>0.0432</b>	<b>0.3242</b>	<b>1.1057</b>	<b>1.4300</b>	<b>0.0491</b>	<b>1.0173</b>	<b>1.0664</b>		<b>4,183.7363</b>	<b>4,183.7363</b>	<b>1.3531</b>		<b>4,217.5639</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5300e-003	0.3392	0.1048	1.6100e-003	0.0518	2.3700e-003	0.0541	0.0142	2.2600e-003	0.0164		183.6822	183.6822	0.0193	0.0295	192.9514
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0377	0.0231	0.3445	1.1300e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		114.2732	114.2732	2.5300e-003	2.6600e-003	115.1302
<b>Total</b>	<b>0.0423</b>	<b>0.3623</b>	<b>0.4493</b>	<b>2.7400e-003</b>	<b>0.1971</b>	<b>3.0700e-003</b>	<b>0.2001</b>	<b>0.0527</b>	<b>2.9100e-003</b>	<b>0.0556</b>		<b>297.9554</b>	<b>297.9554</b>	<b>0.0218</b>	<b>0.0322</b>	<b>308.0816</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.2 Demolition - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1201	0.0000	0.1201	0.0182	0.0000	0.0182			0.0000			0.0000
Off-Road	2.5878	26.0206	16.6182	0.0432		1.1057	1.1057		1.0173	1.0173	0.0000	4,183.7363	4,183.7363	1.3531		4,217.5639
<b>Total</b>	<b>2.5878</b>	<b>26.0206</b>	<b>16.6182</b>	<b>0.0432</b>	<b>0.1201</b>	<b>1.1057</b>	<b>1.2259</b>	<b>0.0182</b>	<b>1.0173</b>	<b>1.0355</b>	<b>0.0000</b>	<b>4,183.7363</b>	<b>4,183.7363</b>	<b>1.3531</b>		<b>4,217.5639</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.5300e-003	0.3392	0.1048	1.6100e-003	0.0518	2.3700e-003	0.0541	0.0142	2.2600e-003	0.0164		183.6822	183.6822	0.0193	0.0295	192.9514
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0377	0.0231	0.3445	1.1300e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		114.2732	114.2732	2.5300e-003	2.6600e-003	115.1302
<b>Total</b>	<b>0.0423</b>	<b>0.3623</b>	<b>0.4493</b>	<b>2.7400e-003</b>	<b>0.1971</b>	<b>3.0700e-003</b>	<b>0.2001</b>	<b>0.0527</b>	<b>2.9100e-003</b>	<b>0.0556</b>		<b>297.9554</b>	<b>297.9554</b>	<b>0.0218</b>	<b>0.0322</b>	<b>308.0816</b>



Victoria Blvd Apt - Orange County, Winter

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

**3.3 Grading - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7621	0.0000	3.7621	0.4084	0.0000	0.4084			0.0000			0.0000
Off-Road	3.2885	33.4226	24.3996	0.0673		1.2837	1.2837		1.1810	1.1810		6,512.975 4	6,512.975 4	2.1064		6,565.636 1
<b>Total</b>	<b>3.2885</b>	<b>33.4226</b>	<b>24.3996</b>	<b>0.0673</b>	<b>3.7621</b>	<b>1.2837</b>	<b>5.0458</b>	<b>0.4084</b>	<b>1.1810</b>	<b>1.5894</b>		<b>6,512.975 4</b>	<b>6,512.975 4</b>	<b>2.1064</b>		<b>6,565.636 1</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2315	18.5568	5.5038	0.0896	2.9084	0.1326	3.0410	0.7962	0.1269	0.9231		10,252.22 48	10,252.22 48	1.0791	1.6461	10,769.74 21
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0522	0.0320	0.4770	1.5700e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543		158.2244	158.2244	3.5100e-003	3.6900e-003	159.4110
<b>Total</b>	<b>0.2837</b>	<b>18.5887</b>	<b>5.9808</b>	<b>0.0912</b>	<b>3.1096</b>	<b>0.1336</b>	<b>3.2432</b>	<b>0.8496</b>	<b>0.1278</b>	<b>0.9774</b>		<b>10,410.44 92</b>	<b>10,410.44 92</b>	<b>1.0827</b>	<b>1.6498</b>	<b>10,929.15 31</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.3 Grading - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.3939	0.0000	1.3939	0.1513	0.0000	0.1513			0.0000			0.0000
Off-Road	3.2885	33.4226	24.3996	0.0673		1.2837	1.2837		1.1810	1.1810	0.0000	6,512.975 4	6,512.975 4	2.1064		6,565.636 1
<b>Total</b>	<b>3.2885</b>	<b>33.4226</b>	<b>24.3996</b>	<b>0.0673</b>	<b>1.3939</b>	<b>1.2837</b>	<b>2.6776</b>	<b>0.1513</b>	<b>1.1810</b>	<b>1.3323</b>	<b>0.0000</b>	<b>6,512.975 4</b>	<b>6,512.975 4</b>	<b>2.1064</b>		<b>6,565.636 1</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2315	18.5568	5.5038	0.0896	2.9084	0.1326	3.0410	0.7962	0.1269	0.9231			10,252.22 48	1.0791	1.6461	10,769.74 21
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	0.0522	0.0320	0.4770	1.5700e-003	0.2012	9.7000e-004	0.2022	0.0534	9.0000e-004	0.0543			158.2244	3.5100e-003	3.6900e-003	159.4110
<b>Total</b>	<b>0.2837</b>	<b>18.5887</b>	<b>5.9808</b>	<b>0.0912</b>	<b>3.1096</b>	<b>0.1336</b>	<b>3.2432</b>	<b>0.8496</b>	<b>0.1278</b>	<b>0.9774</b>			<b>10,410.44 92</b>	<b>1.0827</b>	<b>1.6498</b>	<b>10,929.15 31</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5144	15.7035	10.9696	0.0307		0.5975	0.5975		0.5497	0.5497		2,969.2653	2,969.2653	0.9603		2,993.2733
<b>Total</b>	<b>1.5144</b>	<b>15.7035</b>	<b>10.9696</b>	<b>0.0307</b>		<b>0.5975</b>	<b>0.5975</b>		<b>0.5497</b>	<b>0.5497</b>		<b>2,969.2653</b>	<b>2,969.2653</b>	<b>0.9603</b>		<b>2,993.2733</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1036	3.9425	1.6067	0.0191	0.6906	0.0204	0.7110	0.1988	0.0196	0.2183		2,102.5367	2,102.5367	0.1278	0.3032	2,196.0823
Worker	1.2564	0.7690	11.4747	0.0377	4.8399	0.0234	4.8634	1.2836	0.0216	1.3051		3,806.1753	3,806.1753	0.0844	0.0887	3,834.7202
<b>Total</b>	<b>1.3600</b>	<b>4.7115</b>	<b>13.0814</b>	<b>0.0568</b>	<b>5.5305</b>	<b>0.0439</b>	<b>5.5744</b>	<b>1.4823</b>	<b>0.0411</b>	<b>1.5234</b>		<b>5,908.7120</b>	<b>5,908.7120</b>	<b>0.2122</b>	<b>0.3919</b>	<b>6,030.8025</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5144	15.7035	10.9696	0.0307		0.5975	0.5975		0.5497	0.5497	0.0000	2,969.2653	2,969.2653	0.9603		2,993.2733
<b>Total</b>	<b>1.5144</b>	<b>15.7035</b>	<b>10.9696</b>	<b>0.0307</b>		<b>0.5975</b>	<b>0.5975</b>		<b>0.5497</b>	<b>0.5497</b>	<b>0.0000</b>	<b>2,969.2653</b>	<b>2,969.2653</b>	<b>0.9603</b>		<b>2,993.2733</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1036	3.9425	1.6067	0.0191	0.6906	0.0204	0.7110	0.1988	0.0196	0.2183		2,102.5367	2,102.5367	0.1278	0.3032	2,196.0823
Worker	1.2564	0.7690	11.4747	0.0377	4.8399	0.0234	4.8634	1.2836	0.0216	1.3051		3,806.1753	3,806.1753	0.0844	0.0887	3,834.7202
<b>Total</b>	<b>1.3600</b>	<b>4.7115</b>	<b>13.0814</b>	<b>0.0568</b>	<b>5.5305</b>	<b>0.0439</b>	<b>5.5744</b>	<b>1.4823</b>	<b>0.0411</b>	<b>1.5234</b>		<b>5,908.7120</b>	<b>5,908.7120</b>	<b>0.2122</b>	<b>0.3919</b>	<b>6,030.8025</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573		2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>		<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1021	3.9235	1.5994	0.0187	0.6905	0.0206	0.7111	0.1987	0.0197	0.2184		2,063.2420	2,063.2420	0.1294	0.2988	2,155.5110
Worker	1.1894	0.6964	10.7786	0.0364	4.8399	0.0224	4.8623	1.2836	0.0206	1.3042		3,676.9653	3,676.9653	0.0768	0.0834	3,703.7474
<b>Total</b>	<b>1.2915</b>	<b>4.6199</b>	<b>12.3779</b>	<b>0.0551</b>	<b>5.5305</b>	<b>0.0430</b>	<b>5.5734</b>	<b>1.4823</b>	<b>0.0403</b>	<b>1.5226</b>		<b>5,740.2074</b>	<b>5,740.2074</b>	<b>0.2062</b>	<b>0.3822</b>	<b>5,859.2584</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573	0.0000	2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>	<b>0.0000</b>	<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1021	3.9235	1.5994	0.0187	0.6905	0.0206	0.7111	0.1987	0.0197	0.2184		2,063.2420	2,063.2420	0.1294	0.2988	2,155.5110
Worker	1.1894	0.6964	10.7786	0.0364	4.8399	0.0224	4.8623	1.2836	0.0206	1.3042		3,676.9653	3,676.9653	0.0768	0.0834	3,703.7474
<b>Total</b>	<b>1.2915</b>	<b>4.6199</b>	<b>12.3779</b>	<b>0.0551</b>	<b>5.5305</b>	<b>0.0430</b>	<b>5.5734</b>	<b>1.4823</b>	<b>0.0403</b>	<b>1.5226</b>		<b>5,740.2074</b>	<b>5,740.2074</b>	<b>0.2062</b>	<b>0.3822</b>	<b>5,859.2584</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2026**

**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	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573		2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>		<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1005	3.8957	1.5934	0.0183	0.6905	0.0205	0.7111	0.1987	0.0196	0.2184		2,023.7644	2,023.7644	0.1309	0.2942	2,114.7055
Worker	1.1311	0.6370	10.1940	0.0353	4.8399	0.0213	4.8612	1.2836	0.0196	1.3032		3,563.9029	3,563.9029	0.0702	0.0791	3,589.2316
<b>Total</b>	<b>1.2316</b>	<b>4.5328</b>	<b>11.7874</b>	<b>0.0536</b>	<b>5.5305</b>	<b>0.0418</b>	<b>5.5723</b>	<b>1.4823</b>	<b>0.0392</b>	<b>1.5215</b>		<b>5,587.6673</b>	<b>5,587.6673</b>	<b>0.2011</b>	<b>0.3733</b>	<b>5,703.9371</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.4 Building Construction - 2026**

**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	1.3485	13.1292	10.2930	0.0307		0.4970	0.4970		0.4573	0.4573	0.0000	2,968.0705	2,968.0705	0.9599		2,992.0689
<b>Total</b>	<b>1.3485</b>	<b>13.1292</b>	<b>10.2930</b>	<b>0.0307</b>		<b>0.4970</b>	<b>0.4970</b>		<b>0.4573</b>	<b>0.4573</b>	<b>0.0000</b>	<b>2,968.0705</b>	<b>2,968.0705</b>	<b>0.9599</b>		<b>2,992.0689</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1005	3.8957	1.5934	0.0183	0.6905	0.0205	0.7111	0.1987	0.0196	0.2184		2,023.7644	2,023.7644	0.1309	0.2942	2,114.7055
Worker	1.1311	0.6370	10.1940	0.0353	4.8399	0.0213	4.8612	1.2836	0.0196	1.3032		3,563.9029	3,563.9029	0.0702	0.0791	3,589.2316
<b>Total</b>	<b>1.2316</b>	<b>4.5328</b>	<b>11.7874</b>	<b>0.0536</b>	<b>5.5305</b>	<b>0.0418</b>	<b>5.5723</b>	<b>1.4823</b>	<b>0.0392</b>	<b>1.5215</b>		<b>5,587.6673</b>	<b>5,587.6673</b>	<b>0.2011</b>	<b>0.3733</b>	<b>5,703.9371</b>



Victoria Blvd Apt - Orange County, Winter

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

**3.5 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5153	5.0808	4.4416	0.0114		0.1878	0.1878		0.1739	0.1739		1,083.8706	1,083.8706	0.3397		1,092.3635
Paving	0.0159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5311</b>	<b>5.0808</b>	<b>4.4416</b>	<b>0.0114</b>		<b>0.1878</b>	<b>0.1878</b>		<b>0.1739</b>	<b>0.1739</b>		<b>1,083.8706</b>	<b>1,083.8706</b>	<b>0.3397</b>		<b>1,092.3635</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.1991	6.7000e-004	0.0894	4.1000e-004	0.0898	0.0237	3.8000e-004	0.0241		67.9347	67.9347	1.4200e-003	1.5400e-003	68.4295
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.1991</b>	<b>6.7000e-004</b>	<b>0.0894</b>	<b>4.1000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>67.9347</b>	<b>67.9347</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>68.4295</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.5 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5153	5.0808	4.4416	0.0114		0.1878	0.1878		0.1739	0.1739	0.0000	1,083.8706	1,083.8706	0.3397		1,092.3635
Paving	0.0159					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5311</b>	<b>5.0808</b>	<b>4.4416</b>	<b>0.0114</b>		<b>0.1878</b>	<b>0.1878</b>		<b>0.1739</b>	<b>0.1739</b>	<b>0.0000</b>	<b>1,083.8706</b>	<b>1,083.8706</b>	<b>0.3397</b>		<b>1,092.3635</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0220	0.0129	0.1991	6.7000e-004	0.0894	4.1000e-004	0.0898	0.0237	3.8000e-004	0.0241		67.9347	67.9347	1.4200e-003	1.5400e-003	68.4295
<b>Total</b>	<b>0.0220</b>	<b>0.0129</b>	<b>0.1991</b>	<b>6.7000e-004</b>	<b>0.0894</b>	<b>4.1000e-004</b>	<b>0.0898</b>	<b>0.0237</b>	<b>3.8000e-004</b>	<b>0.0241</b>		<b>67.9347</b>	<b>67.9347</b>	<b>1.4200e-003</b>	<b>1.5400e-003</b>	<b>68.4295</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.6 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.8607</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2390	0.1399	2.1657	7.3100e-003	0.9725	4.5000e-003	0.9770	0.2579	4.1400e-003	0.2620		738.7898	738.7898	0.0154	0.0168	744.1710
<b>Total</b>	<b>0.2390</b>	<b>0.1399</b>	<b>2.1657</b>	<b>7.3100e-003</b>	<b>0.9725</b>	<b>4.5000e-003</b>	<b>0.9770</b>	<b>0.2579</b>	<b>4.1400e-003</b>	<b>0.2620</b>		<b>738.7898</b>	<b>738.7898</b>	<b>0.0154</b>	<b>0.0168</b>	<b>744.1710</b>

Victoria Blvd Apt - Orange County, Winter

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

**3.6 Architectural Coating - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	30.6898					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>30.8607</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2390	0.1399	2.1657	7.3100e-003	0.9725	4.5000e-003	0.9770	0.2579	4.1400e-003	0.2620		738.7898	738.7898	0.0154	0.0168	744.1710
<b>Total</b>	<b>0.2390</b>	<b>0.1399</b>	<b>2.1657</b>	<b>7.3100e-003</b>	<b>0.9725</b>	<b>4.5000e-003</b>	<b>0.9770</b>	<b>0.2579</b>	<b>4.1400e-003</b>	<b>0.2620</b>		<b>738.7898</b>	<b>738.7898</b>	<b>0.0154</b>	<b>0.0168</b>	<b>744.1710</b>

Victoria Blvd Apt - Orange County, Winter

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.3929	6.7478	63.7244	0.1496	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,246.31 98	15,246.31 98	0.9442	0.6437	15,461.73 43
Unmitigated	6.3929	6.7478	63.7244	0.1496	18.1312	0.1026	18.2337	4.8328	0.0954	4.9282		15,246.31 98	15,246.31 98	0.9442	0.6437	15,461.73 43

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,518.04	338.70	310.23	6,462,862	6,462,862
City Park	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>2,518.04</b>	<b>338.70</b>	<b>310.23</b>	<b>6,462,862</b>	<b>6,462,862</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Victoria Blvd Apt - Orange County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
City Park	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Unenclosed Parking with Elevator	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732
Parking Lot	0.548528	0.060762	0.184345	0.125235	0.024171	0.006748	0.014885	0.004939	0.000666	0.000374	0.024916	0.000699	0.003732

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
NaturalGas Unmitigated	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462

Victoria Blvd Apt - Orange County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6957.1	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0750</b>	<b>0.6411</b>	<b>0.2728</b>	<b>4.0900e-003</b>		<b>0.0518</b>	<b>0.0518</b>		<b>0.0518</b>	<b>0.0518</b>		<b>818.4823</b>	<b>818.4823</b>	<b>0.0157</b>	<b>0.0150</b>	<b>823.3462</b>

Victoria Blvd Apt - Orange County, Winter

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	6.9571	0.0750	0.6411	0.2728	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.4823	818.4823	0.0157	0.0150	823.3462
City 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
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
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0750</b>	<b>0.6411</b>	<b>0.2728</b>	<b>4.0900e-003</b>		<b>0.0518</b>	<b>0.0518</b>		<b>0.0518</b>	<b>0.0518</b>		<b>818.4823</b>	<b>818.4823</b>	<b>0.0157</b>	<b>0.0150</b>	<b>823.3462</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths



Victoria Blvd Apt - Orange County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.4273	5.5424	31.0566	0.0348		0.5811	0.5811		0.5811	0.5811	0.0000	6,703.5327	6,703.5327	0.1776	0.1219	6,744.3109
Unmitigated	99.2681	7.5732	206.3240	0.4543		26.8194	26.8194		26.8194	26.8194	3,269.0545	6,334.0033	9,603.0578	9.7990	0.2219	9,914.1534

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5549					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	91.4506	7.2412	177.4846	0.4528		26.6595	26.6595		26.6595	26.6595	3,269.0545	6,282.0000	9,551.0545	9.7490	0.2219	9,860.8986
Landscaping	0.8705	0.3320	28.8394	1.5300e-003		0.1599	0.1599		0.1599	0.1599		52.0033	52.0033	0.0501		53.2548
<b>Total</b>	<b>99.2681</b>	<b>7.5732</b>	<b>206.3240</b>	<b>0.4543</b>		<b>26.8194</b>	<b>26.8194</b>		<b>26.8194</b>	<b>26.8194</b>	<b>3,269.0545</b>	<b>6,334.0033</b>	<b>9,603.0578</b>	<b>9.7990</b>	<b>0.2219</b>	<b>9,914.1534</b>

Victoria Blvd Apt - Orange County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.5549					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6097	5.2104	2.2172	0.0333		0.4213	0.4213		0.4213	0.4213	0.0000	6,651.5294	6,651.5294	0.1275	0.1219	6,691.0561
Landscaping	0.8705	0.3320	28.8394	1.5300e-003		0.1599	0.1599		0.1599	0.1599		52.0033	52.0033	0.0501		53.2548
<b>Total</b>	<b>8.4273</b>	<b>5.5424</b>	<b>31.0566</b>	<b>0.0348</b>		<b>0.5811</b>	<b>0.5811</b>		<b>0.5811</b>	<b>0.5811</b>	<b>0.0000</b>	<b>6,703.5327</b>	<b>6,703.5327</b>	<b>0.1776</b>	<b>0.1219</b>	<b>6,744.3109</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

Victoria Blvd Apt - Orange County, Winter

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Victoria Project  
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
Apartment Mid Rise	2,539,340	25,393	1,340,210	1,340
City Park	0	0	0	0
Parking Lot	0	0	5,600	6
Unenclosed Parking with Elevator	0	0	528,456	528
<b>Totals</b>	<b>2,539,340</b>	<b>25,393</b>	<b>1,874,266</b>	<b>1,874</b>

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Orange County Annual Energy Consumption (2019)	Percentage Increase Countywide
Electricity (MWh)	1,874	19,459,509	0.0096%
Natural Gas (Therms)	25,393	623,146,364	0.0041%

## Victoria Project Energy Calculations

Vehicle Type	Percent of Vehicle Trips <sup>1</sup>	Daily Trips <sup>2</sup>	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon) <sup>3</sup>	Total Annual Fuel Consumption (gallons) <sup>4</sup>
Passenger Cars	0.55	1,379	3,538,113	22	160,823
Light/Medium Trucks	0.42	1,051	2,697,140	17.3	155,904
Heavy Trucks/Other	0.04	89	227,603	6.4	35,563
<b>TOTAL<sup>6</sup></b>	<b>1.00</b>	<b>2,518</b>	<b>6,462,862</b>	<b>--</b>	<b>352,290</b>
Notes:					
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.					
2. Daily Trips taken from ITE manual.					
3. Average fuel economy derived from the Department of Transportation.					
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).					
5. Values may be slightly off due to rounding.					
Source: Refer to CalEEMod outputs for assumptions used in this analysis.					

County On-Road  
2025  
**1,183,854,669**  
0.0298%

**Victoria Project  
Energy Calculations**

<b>WORKER TRIPS</b>						
<b>Phase</b>	<b>Phase Length (# days)</b>	<b># Worker Trips</b>	<b>Worker Trip Length</b>	<b>Total VMT</b>	<b>Fuel Consumption Factor (Miles/Gallon/Day)</b>	<b>Total Fuel Consumption</b>
Demolition	33	13	14.7	6,306		253.24
Grading	44	10	14.7	6,468		259.73
Building Construction	528	433	14.7	3,360,773	<b>24.90284233</b>	134,955.39
Paving	33	8	14.7	3,881		155.84
Architectural Coating	66	87	14.7	84,407		3,389.47
						139,013.66
<b>VENDOR TRIPS</b>						
<b>Phase</b>	<b>Phase Length (# days)</b>	<b># Vendor Trips</b>	<b>Vendor Trip Length</b>	<b>Total VMT</b>	<b>Fuel Consumption Factor (Miles/Gallon/Day)</b>	<b>Total Fuel Consumption</b>
Demolition	33	0	6.9	0		0.00
Grading	44	0	6.9	0		0.00
Building Construction	528	108	6.9	393,466	<b>8.343886151</b>	47,156.16
Paving	33	0	6.9	0		0.00
Architectural Coating	66	0	6.9	0		0.00
						47,156.16
<b>HAULING TRIPS</b>						
<b>Phase</b>	<b>Phase Length (# days)</b>	<b># Hauling Trips</b>	<b>Hauling Trip Length</b>	<b>Total VMT</b>	<b>Fuel Consumption Factor (Miles/Gallon/Day)<sup>1</sup></b>	<b>Total Fuel Consumption</b>
Demolition	33	49	40	64,680		7,751.78
Grading	44	2448	60	6,462,720		774,545.56
Building Construction	528	0	20	0	<b>8.343886151</b>	0.00
Paving	33	0	20	0		0.00
Architectural Coating	66	0	20	0		0.00
						<b>782,297.35</b>
<b>TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION</b>						<b>968,467.17</b>

**Victoria Project  
Energy Calculations**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Demolition	Pavers	1	8	130	0.42	2.184	8	33	576.58
Demolition	Rubber Tired Dozers	2	8	247	0.4	3.952	16	33	2086.66
Demolition	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	33	771.72
Demolition	Scrapers	1	8	367	0.48	7.0464	8	33	1860.25
Grading	Graders	1	8	187	0.41	3.0668	8	44	1079.51
Grading	Rollers	1	8	247	0.4	3.952	8	44	1391.10
Grading	Rubber Tired Loaders	2	8	94	0.37	1.3912	16	44	979.40
Grading	Scrapers	3	8	367	0.48	7.0464	24	44	7441.00
Construction	Graders	1	8	187	0.41	3.0668	8	528	12954.16
Construction	Rollers	1	8	80	0.38	1.216	8	528	5136.38
Construction	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	528	12347.60
Construction	Scrapers	1	8	367	0.48	7.0464	8	528	29763.99
Paving	Graders	1	8	187	0.41	3.0668	8	33	809.64
Paving	Paving Equipment	1	8	132	0.36	1.9008	8	33	501.81
Paving	Singal Boards	1	8	6	0.82	0.1968	8	33	51.96
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	66	593.05
								Total:	78,345
Notes:								Off-Site Mobile Constructic	968,467
Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor								<b>TOTAL:</b>	<b>1,046,812</b>
Where:									
Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.									
Source: Refer to CalEEMod outputs for assumptions used in this analysis.									