

Appendix 1
Air Quality, Energy, and Greenhouse
Gas Data

Sunset Crossings Residential Project
Initial Study

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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

**Sunset Crossing TTM 38443 Residential
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	27.65	241,200.00	383
City Park	1.45	Acre	1.45	63,162.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - As per the information provided by applicant
- Construction Phase - As per the information provided by applicant
- Grading - The project would Cut 368,000 CY of Cut and 368,000 CY of Fill.
- Vehicle Trips - The park is not expected to generate any trips.
- Woodstoves - The project would comply with SCAQMD Rule 445.
- Construction Off-road Equipment Mitigation - The project would comply with SCAQMD Rule 403.
- Waste Mitigation - The project would comply with AB345.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

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tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	440.00	565.00
tblConstructionPhase	NumDays	45.00	132.00
tblConstructionPhase	NumDays	35.00	87.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	113.90	134.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblLandUse	LotAcreage	43.51	27.65
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	9.44
tblVehicleTrips	WD_TR	0.78	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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					
2023	0.1846	1.8837	1.5629	3.4800e-003	0.5502	0.0777	0.6279	0.2063	0.0715	0.2777	0.0000	306.3277	306.3277	0.0964	2.4000e-004	308.8086
2024	0.2138	1.8876	2.4021	4.6600e-003	0.3636	0.0832	0.4468	0.0834	0.0775	0.1610	0.0000	410.7712	410.7712	0.0917	6.0000e-003	414.8528
2025	0.2096	1.7570	2.4094	4.9000e-003	0.1282	0.0702	0.1984	0.0345	0.0661	0.1006	0.0000	432.2808	432.2808	0.0734	9.7000e-003	437.0082
2026	0.8794	1.0420	1.4316	2.9100e-003	0.0775	0.0418	0.1193	0.0209	0.0394	0.0602	0.0000	256.2569	256.2569	0.0430	5.5400e-003	258.9827
Maximum	0.8794	1.8876	2.4094	4.9000e-003	0.5502	0.0832	0.6279	0.2063	0.0775	0.2777	0.0000	432.2808	432.2808	0.0964	9.7000e-003	437.0082

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1846	1.8837	1.5629	3.4800e-003	0.2421	0.0777	0.3198	0.0900	0.0715	0.1615	0.0000	306.3273	306.3273	0.0964	2.4000e-004	308.8083
2024	0.2138	1.8876	2.4021	4.6600e-003	0.2037	0.0832	0.2869	0.0486	0.0775	0.1262	0.0000	410.7709	410.7709	0.0917	6.0000e-003	414.8525
2025	0.2096	1.7570	2.4094	4.9000e-003	0.1282	0.0702	0.1984	0.0345	0.0661	0.1006	0.0000	432.2804	432.2804	0.0734	9.7000e-003	437.0078
2026	0.8794	1.0420	1.4316	2.9100e-003	0.0775	0.0418	0.1193	0.0209	0.0394	0.0602	0.0000	256.2567	256.2567	0.0430	5.5400e-003	258.9824
Maximum	0.8794	1.8876	2.4094	4.9000e-003	0.2421	0.0832	0.3198	0.0900	0.0775	0.1615	0.0000	432.2804	432.2804	0.0964	9.7000e-003	437.0078

	ROG	NOx	CO	SO2	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	41.80	0.00	33.61	43.77	0.00	25.19	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	10-31-2023	1.2471	1.2471
2	11-1-2023	1-31-2024	1.2221	1.2221
3	2-1-2024	4-30-2024	0.3405	0.3405
4	5-1-2024	7-31-2024	0.4695	0.4695
5	8-1-2024	10-31-2024	0.5316	0.5316
6	11-1-2024	1-31-2025	0.5200	0.5200
7	2-1-2025	4-30-2025	0.4791	0.4791
8	5-1-2025	7-31-2025	0.4944	0.4944

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9	8-1-2025	10-31-2025	0.4949	0.4949
10	11-1-2025	1-31-2026	0.4953	0.4953
11	2-1-2026	4-30-2026	0.4780	0.4780
12	5-1-2026	7-31-2026	0.4933	0.4933
13	8-1-2026	9-30-2026	0.7789	0.7789
		Highest	1.2471	1.2471

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810
Energy	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	391.5474	391.5474	0.0199	5.6400e-003	393.7259
Mobile	0.5674	0.8836	5.8729	0.0144	1.6343	0.0114	1.6458	0.4365	0.0107	0.4473	0.0000	1,332.0618	1,332.0618	0.0672	0.0654	1,353.2379
Waste						0.0000	0.0000		0.0000	0.0000	31.9000	0.0000	31.9000	1.8852	0.0000	79.0310
Water						0.0000	0.0000		0.0000	0.0000	2.7698	34.4097	37.1795	0.2874	7.0700e-003	46.4710
Total	1.5802	1.1019	7.3397	0.0158	1.6343	0.0355	1.6698	0.4365	0.0348	0.4713	34.6699	1,792.4547	1,827.1245	2.2625	0.0787	1,907.1468

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810
Energy	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	391.5474	391.5474	0.0199	5.6400e-003	393.7259
Mobile	0.5674	0.8836	5.8729	0.0144	1.6343	0.0114	1.6458	0.4365	0.0107	0.4473	0.0000	1,332.0618	1,332.0618	0.0672	0.0654	1,353.2379
Waste						0.0000	0.0000		0.0000	0.0000	7.9750	0.0000	7.9750	0.4713	0.0000	19.7577
Water						0.0000	0.0000		0.0000	0.0000	2.7698	34.4097	37.1795	0.2874	7.0700e-003	46.4710
Total	1.5802	1.1019	7.3397	0.0158	1.6343	0.0355	1.6698	0.4365	0.0348	0.4713	10.7448	1,792.4547	1,803.1995	0.8486	0.0787	1,847.8735

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.01	0.00	1.31	62.49	0.00	3.11

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	1/31/2024	5	132	
2	Paving	Paving	2/1/2024	5/31/2024	5	87	
3	Building Construction	Building Construction	6/1/2024	7/31/2026	5	565	

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4	Architectural Coating	Architectural Coating	8/1/2026	9/18/2026	5	35
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 396

Acres of Paving: 0

Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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Building Construction	9	75.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	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
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5382	0.0000	0.5382	0.2031	0.0000	0.2031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1810	1.8811	1.5288	3.3800e-003		0.0776	0.0776		0.0714	0.0714	0.0000	297.2169	297.2169	0.0961	0.0000	299.6200
Total	0.1810	1.8811	1.5288	3.3800e-003	0.5382	0.0776	0.6158	0.2031	0.0714	0.2745	0.0000	297.2169	297.2169	0.0961	0.0000	299.6200

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3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	2.6200e-003	0.0341	1.0000e-004	0.0120	6.0000e-005	0.0120	3.1800e-003	5.0000e-005	3.2300e-003	0.0000	9.1108	9.1108	2.3000e-004	2.4000e-004	9.1886
Total	3.5400e-003	2.6200e-003	0.0341	1.0000e-004	0.0120	6.0000e-005	0.0120	3.1800e-003	5.0000e-005	3.2300e-003	0.0000	9.1108	9.1108	2.3000e-004	2.4000e-004	9.1886

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					0.2301	0.0000	0.2301	0.0868	0.0000	0.0868	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1810	1.8811	1.5288	3.3800e-003		0.0776	0.0776		0.0714	0.0714	0.0000	297.2165	297.2165	0.0961	0.0000	299.6197
Total	0.1810	1.8811	1.5288	3.3800e-003	0.2301	0.0776	0.3077	0.0868	0.0714	0.1582	0.0000	297.2165	297.2165	0.0961	0.0000	299.6197

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3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	2.6200e-003	0.0341	1.0000e-004	0.0120	6.0000e-005	0.0120	3.1800e-003	5.0000e-005	3.2300e-003	0.0000	9.1108	9.1108	2.3000e-004	2.4000e-004	9.1886
Total	3.5400e-003	2.6200e-003	0.0341	1.0000e-004	0.0120	6.0000e-005	0.0120	3.1800e-003	5.0000e-005	3.2300e-003	0.0000	9.1108	9.1108	2.3000e-004	2.4000e-004	9.1886

3.2 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					0.2792	0.0000	0.2792	0.0607	0.0000	0.0607	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.3723	0.3188	7.1000e-004		0.0154	0.0154		0.0141	0.0141	0.0000	62.6975	62.6975	0.0203	0.0000	63.2044
Total	0.0370	0.3723	0.3188	7.1000e-004	0.2792	0.0154	0.2946	0.0607	0.0141	0.0749	0.0000	62.6975	62.6975	0.0203	0.0000	63.2044

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3.2 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	4.9000e-004	6.7300e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.8616	1.8616	4.0000e-005	5.0000e-005	1.8768
Total	7.0000e-004	4.9000e-004	6.7300e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.8616	1.8616	4.0000e-005	5.0000e-005	1.8768

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					0.1194	0.0000	0.1194	0.0260	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0370	0.3723	0.3188	7.1000e-004		0.0154	0.0154		0.0141	0.0141	0.0000	62.6974	62.6974	0.0203	0.0000	63.2043
Total	0.0370	0.3723	0.3188	7.1000e-004	0.1194	0.0154	0.1347	0.0260	0.0141	0.0401	0.0000	62.6974	62.6974	0.0203	0.0000	63.2043

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3.2 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	4.9000e-004	6.7300e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.8616	1.8616	4.0000e-005	5.0000e-005	1.8768
Total	7.0000e-004	4.9000e-004	6.7300e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5400e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.8616	1.8616	4.0000e-005	5.0000e-005	1.8768

3.3 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0430	0.4143	0.6362	9.9000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	87.1154	87.1154	0.0282	0.0000	87.8198
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0430	0.4143	0.6362	9.9000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	87.1154	87.1154	0.0282	0.0000	87.8198

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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 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.4000e-003	0.0191	6.0000e-005	7.1700e-003	3.0000e-005	7.2000e-003	1.9000e-003	3.0000e-005	1.9300e-003	0.0000	5.2813	5.2813	1.2000e-004	1.3000e-004	5.3244
Total	1.9800e-003	1.4000e-003	0.0191	6.0000e-005	7.1700e-003	3.0000e-005	7.2000e-003	1.9000e-003	3.0000e-005	1.9300e-003	0.0000	5.2813	5.2813	1.2000e-004	1.3000e-004	5.3244

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	0.0430	0.4143	0.6362	9.9000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	87.1153	87.1153	0.0282	0.0000	87.8197
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0430	0.4143	0.6362	9.9000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	87.1153	87.1153	0.0282	0.0000	87.8197

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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 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9800e-003	1.4000e-003	0.0191	6.0000e-005	7.1700e-003	3.0000e-005	7.2000e-003	1.9000e-003	3.0000e-005	1.9300e-003	0.0000	5.2813	5.2813	1.2000e-004	1.3000e-004	5.3244
Total	1.9800e-003	1.4000e-003	0.0191	6.0000e-005	7.1700e-003	3.0000e-005	7.2000e-003	1.9000e-003	3.0000e-005	1.9300e-003	0.0000	5.2813	5.2813	1.2000e-004	1.3000e-004	5.3244

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	0.1118	1.0217	1.2287	2.0500e-003		0.0466	0.0466		0.0438	0.0438	0.0000	176.2053	176.2053	0.0417	0.0000	177.2470
Total	0.1118	1.0217	1.2287	2.0500e-003		0.0466	0.0466		0.0438	0.0438	0.0000	176.2053	176.2053	0.0417	0.0000	177.2470

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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	2.0300e-003	0.0652	0.0257	3.3000e-004	0.0120	5.4000e-004	0.0125	3.4600e-003	5.1000e-004	3.9800e-003	0.0000	31.4751	31.4751	3.3000e-004	4.6500e-003	32.8683
Worker	0.0173	0.0122	0.1669	5.0000e-004	0.0627	2.8000e-004	0.0629	0.0166	2.6000e-004	0.0169	0.0000	46.1351	46.1351	1.0800e-003	1.1700e-003	46.5122
Total	0.0193	0.0773	0.1926	8.3000e-004	0.0747	8.2000e-004	0.0755	0.0201	7.7000e-004	0.0209	0.0000	77.6102	77.6102	1.4100e-003	5.8200e-003	79.3804

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	0.1118	1.0217	1.2287	2.0500e-003		0.0466	0.0466		0.0438	0.0438	0.0000	176.2051	176.2051	0.0417	0.0000	177.2468
Total	0.1118	1.0217	1.2287	2.0500e-003		0.0466	0.0466		0.0438	0.0438	0.0000	176.2051	176.2051	0.0417	0.0000	177.2468

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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	2.0300e-003	0.0652	0.0257	3.3000e-004	0.0120	5.4000e-004	0.0125	3.4600e-003	5.1000e-004	3.9800e-003	0.0000	31.4751	31.4751	3.3000e-004	4.6500e-003	32.8683
Worker	0.0173	0.0122	0.1669	5.0000e-004	0.0627	2.8000e-004	0.0629	0.0166	2.6000e-004	0.0169	0.0000	46.1351	46.1351	1.0800e-003	1.1700e-003	46.5122
Total	0.0193	0.0773	0.1926	8.3000e-004	0.0747	8.2000e-004	0.0755	0.0201	7.7000e-004	0.0209	0.0000	77.6102	77.6102	1.4100e-003	5.8200e-003	79.3804

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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	3.4300e-003	0.1109	0.0436	5.5000e-004	0.0206	9.2000e-004	0.0215	5.9500e-003	8.8000e-004	6.8300e-003	0.0000	53.0938	53.0938	6.0000e-004	7.8200e-003	55.4398
Worker	0.0277	0.0188	0.2668	8.3000e-004	0.1076	4.6000e-004	0.1080	0.0286	4.3000e-004	0.0290	0.0000	76.5321	76.5321	1.6700e-003	1.8800e-003	77.1348
Total	0.0312	0.1297	0.3103	1.3800e-003	0.1282	1.3800e-003	0.1296	0.0345	1.3100e-003	0.0358	0.0000	129.6259	129.6259	2.2700e-003	9.7000e-003	132.5746

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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	3.4300e-003	0.1109	0.0436	5.5000e-004	0.0206	9.2000e-004	0.0215	5.9500e-003	8.8000e-004	6.8300e-003	0.0000	53.0938	53.0938	6.0000e-004	7.8200e-003	55.4398
Worker	0.0277	0.0188	0.2668	8.3000e-004	0.1076	4.6000e-004	0.1080	0.0286	4.3000e-004	0.0290	0.0000	76.5321	76.5321	1.6700e-003	1.8800e-003	77.1348
Total	0.0312	0.1297	0.3103	1.3800e-003	0.1282	1.3800e-003	0.1296	0.0345	1.3100e-003	0.0358	0.0000	129.6259	129.6259	2.2700e-003	9.7000e-003	132.5746

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	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2588	176.2588	0.0414	0.0000	177.2946
Total	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2588	176.2588	0.0414	0.0000	177.2946

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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	1.9800e-003	0.0640	0.0251	3.2000e-004	0.0120	5.4000e-004	0.0125	3.4600e-003	5.1000e-004	3.9800e-003	0.0000	30.3581	30.3581	3.6000e-004	4.4600e-003	31.6974
Worker	0.0152	9.8800e-003	0.1457	4.7000e-004	0.0627	2.6000e-004	0.0629	0.0166	2.3000e-004	0.0169	0.0000	43.1832	43.1832	8.8000e-004	1.0300e-003	43.5125
Total	0.0172	0.0738	0.1708	7.9000e-004	0.0747	8.0000e-004	0.0755	0.0201	7.4000e-004	0.0209	0.0000	73.5412	73.5412	1.2400e-003	5.4900e-003	75.2099

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	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2586	176.2586	0.0414	0.0000	177.2944
Total	0.1039	0.9477	1.2224	2.0500e-003		0.0401	0.0401		0.0377	0.0377	0.0000	176.2586	176.2586	0.0414	0.0000	177.2944

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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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9800e-003	0.0640	0.0251	3.2000e-004	0.0120	5.4000e-004	0.0125	3.4600e-003	5.1000e-004	3.9800e-003	0.0000	30.3581	30.3581	3.6000e-004	4.4600e-003	31.6974
Worker	0.0152	9.8800e-003	0.1457	4.7000e-004	0.0627	2.6000e-004	0.0629	0.0166	2.3000e-004	0.0169	0.0000	43.1832	43.1832	8.8000e-004	1.0300e-003	43.5125
Total	0.0172	0.0738	0.1708	7.9000e-004	0.0747	8.0000e-004	0.0755	0.0201	7.4000e-004	0.0209	0.0000	73.5412	73.5412	1.2400e-003	5.4900e-003	75.2099

3.5 Architectural Coating - 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					
Archit. Coating	0.7546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
Total	0.7576	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743

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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 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039
Total	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7546					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
Total	0.7576	0.0201	0.0317	5.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743

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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 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039
Total	7.0000e-004	4.6000e-004	6.7100e-003	2.0000e-005	2.8900e-003	1.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	1.9887	1.9887	4.0000e-005	5.0000e-005	2.0039

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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	0.5674	0.8836	5.8729	0.0144	1.6343	0.0114	1.6458	0.4365	0.0107	0.4473	0.0000	1,332.0618	1,332.0618	0.0672	0.0654	1,353.2379
Unmitigated	0.5674	0.8836	5.8729	0.0144	1.6343	0.0114	1.6458	0.4365	0.0107	0.4473	0.0000	1,332.0618	1,332.0618	0.0672	0.0654	1,353.2379

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560
Total	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Single Family Housing	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689

5.0 Energy Detail

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	189.2746	189.2746	0.0160	1.9400e-003	190.2510
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	189.2746	189.2746	0.0160	1.9400e-003	190.2510
NaturalGas Mitigated	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
NaturalGas Unmitigated	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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					
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
Single Family Housing	3.79045e+006	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
Total		0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749

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					
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
Single Family Housing	3.79045e+006	0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749
Total		0.0204	0.1747	0.0743	1.1100e-003		0.0141	0.0141		0.0141	0.0141	0.0000	202.2728	202.2728	3.8800e-003	3.7100e-003	203.4749

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.06726e+006	189.2746	0.0160	1.9400e-003	190.2510
Total		189.2746	0.0160	1.9400e-003	190.2510

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.06726e+006	189.2746	0.0160	1.9400e-003	190.2510
Total		189.2746	0.0160	1.9400e-003	190.2510

6.0 Area Detail

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810
Unmitigated	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2500e-003	0.0278	0.0118	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1784	32.1784	6.2000e-004	5.9000e-004	32.3696
Landscaping	0.0415	0.0159	1.3806	7.0000e-005		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	2.2573	2.2573	2.1600e-003	0.0000	2.3114
Total	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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	0.0755					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8722					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2500e-003	0.0278	0.0118	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.1784	32.1784	6.2000e-004	5.9000e-004	32.3696
Landscaping	0.0415	0.0159	1.3806	7.0000e-005		7.6600e-003	7.6600e-003		7.6600e-003	7.6600e-003	0.0000	2.2573	2.2573	2.1600e-003	0.0000	2.3114
Total	0.9923	0.0437	1.3924	2.5000e-004		9.9100e-003	9.9100e-003		9.9100e-003	9.9100e-003	0.0000	34.4357	34.4357	2.7800e-003	5.9000e-004	34.6810

7.0 Water Detail

7.1 Mitigation Measures Water

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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	37.1795	0.2874	7.0700e-003	46.4710
Unmitigated	37.1795	0.2874	7.0700e-003	46.4710

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.72765	3.4040	2.9000e-004	3.0000e-005	3.4216
Single Family Housing	8.73064 / 5.5041	33.7755	0.2871	7.0300e-003	43.0495
Total		37.1795	0.2874	7.0600e-003	46.4710

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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			
City Park	0 / 1.72765	3.4040	2.9000e-004	3.0000e-005	3.4216
Single Family Housing	8.73064 / 5.5041	33.7755	0.2871	7.0300e-003	43.0495
Total		37.1795	0.2874	7.0600e-003	46.4710

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	7.9750	0.4713	0.0000	19.7577
Unmitigated	31.9000	1.8852	0.0000	79.0310

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.12	0.0244	1.4400e-003	0.0000	0.0604
Single Family Housing	157.03	31.8757	1.8838	0.0000	78.9706
Total		31.9000	1.8852	0.0000	79.0310

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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			
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Single Family Housing	39.2575	7.9689	0.4710	0.0000	19.7427
Total		7.9750	0.4713	0.0000	19.7578

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
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11.0 Vegetation

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Annual

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

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

**Sunset Crossing TTM 38443 Residential
Riverside-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	27.65	241,200.00	383
City Park	1.45	Acre	1.45	63,162.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - As per the information provided by applicant
- Construction Phase - As per the information provided by applicant
- Grading - The project would Cut 368,000 CY of Cut and 368,000 CY of Fill.
- Vehicle Trips - The park is not expected to generate any trips.
- Woodstoves - The project would comply with SCAQMD Rule 445.
- Construction Off-road Equipment Mitigation - The project would comply with SCAQMD Rule 403.
- Waste Mitigation - The project would comply with AB345.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	440.00	565.00
tblConstructionPhase	NumDays	45.00	132.00
tblConstructionPhase	NumDays	35.00	87.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	113.90	134.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblLandUse	LotAcreage	43.51	27.65
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	9.44
tblVehicleTrips	WD_TR	0.78	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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					
2023	3.3948	34.5607	28.7829	0.0641	9.4271	1.4255	10.8527	3.7130	1.3115	5.0245	0.0000	6,210.2258	6,210.2258	1.9488	4.6900e-003	6,260.3447
2024	3.2862	32.4172	28.4068	0.0640	9.4271	1.3364	10.7635	3.7130	1.2295	4.9425	0.0000	6,202.1700	6,202.1700	1.9478	0.0836	6,252.1650
2025	1.6332	13.4149	18.7988	0.0381	0.9984	0.5382	1.5366	0.2684	0.5063	0.7747	0.0000	3,701.4481	3,701.4481	0.6201	0.0812	3,741.1550
2026	43.3370	13.3939	18.6449	0.0378	0.9984	0.5380	1.5364	0.2684	0.5061	0.7745	0.0000	3,671.5015	3,671.5015	0.6190	0.0790	3,710.5159
Maximum	43.3370	34.5607	28.7829	0.0641	9.4271	1.4255	10.8527	3.7130	1.3115	5.0245	0.0000	6,210.2258	6,210.2258	1.9488	0.0836	6,260.3447

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.6218	4.5492	35.2534	0.0839	9.1303	0.0629	9.1933	2.4354	0.0590	2.4944		8,548.4734	8,548.4734	0.3994	0.3863	8,673.5685
Total	9.5180	7.8563	47.6514	0.1048	9.1303	0.3813	9.5116	2.4354	0.3773	2.8128	0.0000	12,627.7673	12,627.7673	0.4963	0.4607	12,777.4619

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	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.6218	4.5492	35.2534	0.0839	9.1303	0.0629	9.1933	2.4354	0.0590	2.4944		8,548.4734	8,548.4734	0.3994	0.3863	8,673.5685
Total	9.5180	7.8563	47.6514	0.1048	9.1303	0.3813	9.5116	2.4354	0.3773	2.8128	0.0000	12,627.7673	12,627.7673	0.4963	0.4607	12,777.4619

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	1/31/2024	5	132	
2	Paving	Paving	2/1/2024	5/31/2024	5	87	
3	Building Construction	Building Construction	6/1/2024	7/31/2026	5	565	
4	Architectural Coating	Architectural Coating	8/1/2026	9/18/2026	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 396

Acres of Paving: 0

Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	75.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612
Total	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.2 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	3.9345	1.4245	5.3590	1.5620	1.3105	2.8725	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612
Total	0.0730	0.0451	0.7317	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		198.7481	198.7481	4.5900e-003	4.6900e-003	200.2612

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.2036	1.3354	10.5390	3.6538	1.2286	4.8823		6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.2 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	3.9345	1.3354	5.2699	1.5620	1.2286	2.7906	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244
Total	0.0681	0.0402	0.6840	1.9000e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		192.4214	192.4214	4.1600e-003	4.3600e-003	193.8244

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.3 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
Total	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.3 Paving - 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
Total	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0277	0.8168	0.3325	4.3000e-003	0.1601	7.0700e-003	0.1672	0.0461	6.7600e-003	0.0529		456.0390	456.0390	4.8900e-003	0.0673	476.2128
Worker	0.2552	0.1507	2.5651	7.1400e-003	0.8383	3.7400e-003	0.8421	0.2223	3.4400e-003	0.2258		721.5801	721.5801	0.0156	0.0164	726.8416
Total	0.2829	0.9675	2.8975	0.0114	0.9984	0.0108	1.0093	0.2684	0.0102	0.2786		1,177.6190	1,177.6190	0.0205	0.0836	1,203.0544

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0277	0.8168	0.3325	4.3000e-003	0.1601	7.0700e-003	0.1672	0.0461	6.7600e-003	0.0529		456.0390	456.0390	4.8900e-003	0.0673	476.2128
Worker	0.2552	0.1507	2.5651	7.1400e-003	0.8383	3.7400e-003	0.8421	0.2223	3.4400e-003	0.2258		721.5801	721.5801	0.0156	0.0164	726.8416
Total	0.2829	0.9675	2.8975	0.0114	0.9984	0.0108	1.0093	0.2684	0.0102	0.2786		1,177.6190	1,177.6190	0.0205	0.0836	1,203.0544

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0274	0.8101	0.3287	4.2200e-003	0.1601	7.0700e-003	0.1672	0.0461	6.7600e-003	0.0529		448.0002	448.0002	5.0700e-003	0.0660	467.7858
Worker	0.2384	0.1351	2.3855	6.9000e-003	0.8383	3.5500e-003	0.8419	0.2223	3.2700e-003	0.2256		696.9735	696.9735	0.0141	0.0153	701.8711
Total	0.2658	0.9452	2.7142	0.0111	0.9984	0.0106	1.0091	0.2684	0.0100	0.2785		1,144.973 8	1,144.973 8	0.0191	0.0812	1,169.657 0

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0274	0.8101	0.3287	4.2200e-003	0.1601	7.0700e-003	0.1672	0.0461	6.7600e-003	0.0529		448.0002	448.0002	5.0700e-003	0.0660	467.7858
Worker	0.2384	0.1351	2.3855	6.9000e-003	0.8383	3.5500e-003	0.8419	0.2223	3.2700e-003	0.2256		696.9735	696.9735	0.0141	0.0153	701.8711
Total	0.2658	0.9452	2.7142	0.0111	0.9984	0.0106	1.0091	0.2684	0.0100	0.2785		1,144.973 8	1,144.973 8	0.0191	0.0812	1,169.657 0

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0270	0.8020	0.3256	4.1400e-003	0.1601	7.0400e-003	0.1672	0.0461	6.7400e-003	0.0528		439.8493	439.8493	5.2500e-003	0.0646	459.2443
Worker	0.2239	0.1223	2.2347	6.6800e-003	0.8383	3.3600e-003	0.8417	0.2223	3.0900e-003	0.2254		675.1778	675.1778	0.0128	0.0144	679.7735
Total	0.2509	0.9243	2.5603	0.0108	0.9984	0.0104	1.0088	0.2684	9.8300e-003	0.2783		1,115.027 2	1,115.027 2	0.0180	0.0790	1,139.017 8

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0270	0.8020	0.3256	4.1400e-003	0.1601	7.0400e-003	0.1672	0.0461	6.7400e-003	0.0528		439.8493	439.8493	5.2500e-003	0.0646	459.2443
Worker	0.2239	0.1223	2.2347	6.6800e-003	0.8383	3.3600e-003	0.8417	0.2223	3.0900e-003	0.2254		675.1778	675.1778	0.0128	0.0144	679.7735
Total	0.2509	0.9243	2.5603	0.0108	0.9984	0.0104	1.0088	0.2684	9.8300e-003	0.2783		1,115.027 2	1,115.027 2	0.0180	0.0790	1,139.017 8

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 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					
Archit. Coating	43.1214					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
Total	43.2923	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547
Total	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 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					
Archit. Coating	43.1214					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
Total	43.2923	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

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	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547
Total	0.0448	0.0245	0.4469	1.3400e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		135.0356	135.0356	2.5500e-003	2.8700e-003	135.9547

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	3.6218	4.5492	35.2534	0.0839	9.1303	0.0629	9.1933	2.4354	0.0590	2.4944		8,548.473 4	8,548.473 4	0.3994	0.3863	8,673.568 5
Unmitigated	3.6218	4.5492	35.2534	0.0839	9.1303	0.0629	9.1933	2.4354	0.0590	2.4944		8,548.473 4	8,548.473 4	0.3994	0.3863	8,673.568 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560
Total	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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
City Park	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Single Family Housing	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
NaturalGas Unmitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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					
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
Single Family Housing	10384.8	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Total		0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

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					
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
Single Family Housing	10.3848	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Total		0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

6.0 Area Detail

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Unmitigated	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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

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	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2601	2.2228	0.9459	0.0142		0.1797	0.1797		0.1797	0.1797	0.0000	2,837.647 1	2,837.647 1	0.0544	0.0520	2,854.509 8
Landscaping	0.3316	0.1272	11.0448	5.8000e-004		0.0613	0.0613		0.0613	0.0613		19.9063	19.9063	0.0191		20.3829
Total	5.7843	2.3500	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.553 4	2,857.553 4	0.0735	0.0520	2,874.892 7

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2601	2.2228	0.9459	0.0142		0.1797	0.1797		0.1797	0.1797	0.0000	2,837.647 1	2,837.647 1	0.0544	0.0520	2,854.509 8
Landscaping	0.3316	0.1272	11.0448	5.8000e-004		0.0613	0.0613		0.0613	0.0613		19.9063	19.9063	0.0191		20.3829
Total	5.7843	2.3500	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.553 4	2,857.553 4	0.0735	0.0520	2,874.892 7

7.0 Water Detail

7.1 Mitigation Measures Water

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

**Sunset Crossing TTM 38443 Residential
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	134.00	Dwelling Unit	27.65	241,200.00	383
City Park	1.45	Acre	1.45	63,162.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - As per the information provided by applicant
- Construction Phase - As per the information provided by applicant
- Grading - The project would Cut 368,000 CY of Cut and 368,000 CY of Fill.
- Vehicle Trips - The park is not expected to generate any trips.
- Woodstoves - The project would comply with SCAQMD Rule 445.
- Construction Off-road Equipment Mitigation - The project would comply with SCAQMD Rule 403.
- Waste Mitigation - The project would comply with AB345.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	440.00	565.00
tblConstructionPhase	NumDays	45.00	132.00
tblConstructionPhase	NumDays	35.00	87.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	113.90	134.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblLandUse	LotAcreage	43.51	27.65
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	9.44
tblVehicleTrips	WD_TR	0.78	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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					
2023	3.3902	34.5624	28.6454	0.0639	9.4271	1.4255	10.8527	3.7130	1.3115	5.0245	0.0000	6,191.5624	6,191.5624	1.9488	4.8000e-003	6,241.7138
2024	3.2821	32.4186	28.2785	0.0638	9.4271	1.3364	10.7635	3.7130	1.2295	4.9425	0.0000	6,184.1340	6,184.1340	1.9478	0.0842	6,234.1589
2025	1.6175	13.4690	18.3651	0.0374	0.9984	0.5382	1.5366	0.2684	0.5063	0.7747	0.0000	3,637.4133	3,637.4133	0.6200	0.0818	3,677.2876
2026	43.3346	13.4471	18.2410	0.0372	0.9984	0.5380	1.5364	0.2684	0.5061	0.7745	0.0000	3,609.6162	3,609.6162	0.6189	0.0795	3,648.7902
Maximum	43.3346	34.5624	28.6454	0.0639	9.4271	1.4255	10.8527	3.7130	1.3115	5.0245	0.0000	6,191.5624	6,191.5624	1.9488	0.0842	6,241.7138

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.0801	4.8330	31.2534	0.0779	9.1303	0.0630	9.1933	2.4354	0.0590	2.4944		7,943.2358	7,943.2358	0.4081	0.3943	8,070.9428
Total	8.9763	8.1401	43.6514	0.0988	9.1303	0.3813	9.5117	2.4354	0.3774	2.8128	0.0000	12,022.5297	12,022.5297	0.5050	0.4687	12,174.8362

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	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Energy	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Mobile	3.0801	4.8330	31.2534	0.0779	9.1303	0.0630	9.1933	2.4354	0.0590	2.4944		7,943.2358	7,943.2358	0.4081	0.3943	8,070.9428
Total	8.9763	8.1401	43.6514	0.0988	9.1303	0.3813	9.5117	2.4354	0.3774	2.8128	0.0000	12,022.5297	12,022.5297	0.5050	0.4687	12,174.8362

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	8/1/2023	1/31/2024	5	132	
2	Paving	Paving	2/1/2024	5/31/2024	5	87	
3	Building Construction	Building Construction	6/1/2024	7/31/2026	5	565	
4	Architectural Coating	Architectural Coating	8/1/2026	9/18/2026	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 396

Acres of Paving: 0

Residential Indoor: 488,430; Residential Outdoor: 162,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	75.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	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

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302
Total	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.2 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	3.9345	1.4245	5.3590	1.5620	1.3105	2.8725	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302
Total	0.0684	0.0468	0.5942	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.6000e-004	0.0603		180.0847	180.0847	4.5800e-003	4.8000e-003	181.6302

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.2 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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286		6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	9.2036	1.3354	10.5390	3.6538	1.2286	4.8823		6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.2 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					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.2181	32.3770	27.7228	0.0621		1.3354	1.3354		1.2286	1.2286	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405
Total	3.2181	32.3770	27.7228	0.0621	3.9345	1.3354	5.2699	1.5620	1.2286	2.7906	0.0000	6,009.7487	6,009.7487	1.9437		6,058.3405

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	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183
Total	0.0640	0.0417	0.5557	1.7300e-003	0.2236	1.0000e-003	0.2246	0.0593	9.2000e-004	0.0602		174.3853	174.3853	4.1600e-003	4.4600e-003	175.8183

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.3 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638
Total	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.3 Paving - 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

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	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638
Total	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0257	0.8663	0.3437	4.3100e-003	0.1601	7.0900e-003	0.1672	0.0461	6.7800e-003	0.0529		457.1786	457.1786	4.8000e-003	0.0675	477.4165
Worker	0.2399	0.1563	2.0839	6.4700e-003	0.8383	3.7400e-003	0.8421	0.2223	3.4400e-003	0.2258		653.9450	653.9450	0.0156	0.0167	659.3188
Total	0.2656	1.0226	2.4276	0.0108	0.9984	0.0108	1.0093	0.2684	0.0102	0.2787		1,111.1236	1,111.1236	0.0204	0.0842	1,136.7353

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.0257	0.8663	0.3437	4.3100e-003	0.1601	7.0900e-003	0.1672	0.0461	6.7800e-003	0.0529		457.1786	457.1786	4.8000e-003	0.0675	477.4165
Worker	0.2399	0.1563	2.0839	6.4700e-003	0.8383	3.7400e-003	0.8421	0.2223	3.4400e-003	0.2258		653.9450	653.9450	0.0156	0.0167	659.3188
Total	0.2656	1.0226	2.4276	0.0108	0.9984	0.0108	1.0093	0.2684	0.0102	0.2787		1,111.1236	1,111.1236	0.0204	0.0842	1,136.7353

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0253	0.8592	0.3400	4.2300e-003	0.1601	7.0900e-003	0.1672	0.0461	6.7900e-003	0.0529		449.1263	449.1263	4.9800e-003	0.0662	468.9744
Worker	0.2248	0.1401	1.9404	6.2500e-003	0.8383	3.5500e-003	0.8419	0.2223	3.2700e-003	0.2256		631.8126	631.8126	0.0141	0.0156	636.8151
Total	0.2501	0.9993	2.2804	0.0105	0.9984	0.0106	1.0091	0.2684	0.0101	0.2785		1,080.938 9	1,080.938 9	0.0191	0.0818	1,105.789 5

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0253	0.8592	0.3400	4.2300e-003	0.1601	7.0900e-003	0.1672	0.0461	6.7900e-003	0.0529		449.1263	449.1263	4.9800e-003	0.0662	468.9744
Worker	0.2248	0.1401	1.9404	6.2500e-003	0.8383	3.5500e-003	0.8419	0.2223	3.2700e-003	0.2256		631.8126	631.8126	0.0141	0.0156	636.8151
Total	0.2501	0.9993	2.2804	0.0105	0.9984	0.0106	1.0091	0.2684	0.0101	0.2785		1,080.938 9	1,080.938 9	0.0191	0.0818	1,105.789 5

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0250	0.8507	0.3368	4.1500e-003	0.1601	7.0600e-003	0.1672	0.0461	6.7600e-003	0.0529		440.9597	440.9597	5.1600e-003	0.0649	460.4157
Worker	0.2117	0.1267	1.8195	6.0600e-003	0.8383	3.3600e-003	0.8417	0.2223	3.0900e-003	0.2254		612.1822	612.1822	0.0128	0.0147	616.8765
Total	0.2367	0.9774	2.1564	0.0102	0.9984	0.0104	1.0089	0.2684	9.8500e-003	0.2783		1,053.141 9	1,053.141 9	0.0180	0.0795	1,077.292 2

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0250	0.8507	0.3368	4.1500e-003	0.1601	7.0600e-003	0.1672	0.0461	6.7600e-003	0.0529		440.9597	440.9597	5.1600e-003	0.0649	460.4157
Worker	0.2117	0.1267	1.8195	6.0600e-003	0.8383	3.3600e-003	0.8417	0.2223	3.0900e-003	0.2254		612.1822	612.1822	0.0128	0.0147	616.8765
Total	0.2367	0.9774	2.1564	0.0102	0.9984	0.0104	1.0089	0.2684	9.8500e-003	0.2783		1,053.141 9	1,053.141 9	0.0180	0.0795	1,077.292 2

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 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					
Archit. Coating	43.1214					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
Total	43.2923	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0423	0.0254	0.3639	1.2100e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		122.4364	122.4364	2.5600e-003	2.9400e-003	123.3753
Total	0.0423	0.0254	0.3639	1.2100e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		122.4364	122.4364	2.5600e-003	2.9400e-003	123.3753

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 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					
Archit. Coating	43.1214					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
Total	43.2923	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

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	0.0423	0.0254	0.3639	1.2100e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		122.4364	122.4364	2.5600e-003	2.9400e-003	123.3753
Total	0.0423	0.0254	0.3639	1.2100e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		122.4364	122.4364	2.5600e-003	2.9400e-003	123.3753

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	3.0801	4.8330	31.2534	0.0779	9.1303	0.0630	9.1933	2.4354	0.0590	2.4944		7,943.2358	7,943.2358	0.4081	0.3943	8,070.9428
Unmitigated	3.0801	4.8330	31.2534	0.0779	9.1303	0.0630	9.1933	2.4354	0.0590	2.4944		7,943.2358	7,943.2358	0.4081	0.3943	8,070.9428

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560
Total	1,264.96	1,264.96	1,264.96	4,322,560	4,322,560

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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
City Park	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689
Single Family Housing	0.542916	0.056689	0.174450	0.134041	0.024680	0.006960	0.011589	0.018600	0.000608	0.000298	0.023389	0.001091	0.004689

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
NaturalGas Unmitigated	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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					
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
Single Family Housing	10384.8	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Total		0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

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					
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
Single Family Housing	10.3848	0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007
Total		0.1120	0.9570	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774		1,221.7405	1,221.7405	0.0234	0.0224	1,229.0007

6.0 Area Detail

Sunset Crossing TTM 38443 Residential - Riverside-South Coast County, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927
Unmitigated	5.7843	2.3501	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.5534	2,857.5534	0.0735	0.0520	2,874.8927

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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

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	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2601	2.2228	0.9459	0.0142		0.1797	0.1797		0.1797	0.1797	0.0000	2,837.647 1	2,837.647 1	0.0544	0.0520	2,854.509 8
Landscaping	0.3316	0.1272	11.0448	5.8000e-004		0.0613	0.0613		0.0613	0.0613		19.9063	19.9063	0.0191		20.3829
Total	5.7843	2.3500	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.553 4	2,857.553 4	0.0735	0.0520	2,874.892 7

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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	0.4135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.7790					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2601	2.2228	0.9459	0.0142		0.1797	0.1797		0.1797	0.1797	0.0000	2,837.647 1	2,837.647 1	0.0544	0.0520	2,854.509 8
Landscaping	0.3316	0.1272	11.0448	5.8000e-004		0.0613	0.0613		0.0613	0.0613		19.9063	19.9063	0.0191		20.3829
Total	5.7843	2.3500	11.9907	0.0148		0.2410	0.2410		0.2410	0.2410	0.0000	2,857.553 4	2,857.553 4	0.0735	0.0520	2,874.892 7

7.0 Water Detail

7.1 Mitigation Measures Water

Sunset Crossing TTM 38443 Residential - Riverside-South Coast 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

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

**TTM 38443 Residential Project
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
Single Family Residential	3,790,450	37,905	1,067,260	1,067
Totals	3,790,450	37,905	1,067,260	1,067

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Riverside	
		County Annual Energy Consumption	Percentage Increase Countywide
Electricity (MWh)	1,067	8,510,527	0.0125%
Natural Gas (Therms)	37,905	66,164,358	0.0573%

Source: Refer to CalEEMod outputs for assumptions used in this analysis.

**TTM 38443 Residential Project
Energy Calculations**

Vehicle Type	Percent of Vehicle Trips ¹	Daily Trips ²	Annual Vehicle Miles Traveled	Average Fuel Economy (miles per gallon) ³	Total Annual Fuel Consumption (gallons) ⁴
Passenger Cars	0.54	680	2,325,066	22	105,685
Light/Medium Trucks	0.42	535	1,828,447	17.3	105,691
Heavy Trucks/Other	0.04	49	169,047	6.4	26,414
TOTAL ⁶	1.00	1,265	4,322,560	--	237,789

County On-Road
2026
710,266,011
0.0335%

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.

**TTM 38443 Residential Project
Energy Calculations**

WORKER TRIPS						
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	132	20	14.7	38,808		1,558.38
Building Construction	565	75	14.7	622,913	24.90284233	25,013.71
Paving	87	15	14.7	19,184		770.33
Architectural Coating	35	15	14.7	7,718		309.90
						27,652.33
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	132	0	6.9	0		0.00
Building Construction	565	25	6.9	97,463	8.343886151	11,680.71
Paving	87	0	6.9	0		0.00
Architectural Coating	35	0	6.9	0		0.00
						11,680.71
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	132	0	20	0		0.00
Building Construction	565	0	20	0		0.00
Paving	87	0	20	0	8.343886151	0.00
Architectural Coating	35	0	20	0		0.00
						0.00
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						39,333.03

**TTM 38443 Residential 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)
Grading	Excavators	2	8	158	0.38	2.4016	16	86	3304.60
Grading	Graders	1	8	187	0.41	3.0668	8	86	2109.96
Grading	Rubber Tired Dozers	1	8	247	0.4	3.952	8	86	2718.98
Grading	Scrapers	2	8	367	0.48	7.0464	16	86	9695.85
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	86	1975.39
Building Construction	Cranes	1	7	231	0.29	2.6796	7	154	2888.61
Building Construction	Forklifts	3	8	89	0.2	0.712	24	154	2631.55
Building Construction	Generator Sets	1	8	84	0.74	2.4864	8	154	3063.24
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	1.4356	21	154	4642.73
Building Construction	Welders	1	8	46	0.45	0.828	8	154	1020.10
Paving	Pavers	2	8	130	0.42	2.184	16	175	6115.20
Paving	Paving Equipment	2	8	132	0.36	1.9008	16	175	5322.24
Paving	Rollers	2	8	80	0.38	1.216	16	175	3404.80
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	87	781.75
								Total:	49,675
Notes:								Off-Site Mobile Constructic	39,333
Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor								TOTAL:	89,008
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.									