

APPENDIX A
AIR QUALITY/GREENHOUSE GAS/ ENERGY
MODELING RESULTS

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Annual

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

**Menifee TTM 38128 Residential Lots
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.37	Acre	1.37	59,677.20	0
Single Family Housing	96.00	Dwelling Unit	27.01	172,800.00	275

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 - The proposed project consists of the development of 96 single-family detached residential units and 1.37 acre park on an approximately 28.38-acre site.

Construction Phase - Project construction would occur as a single phase and is anticipated to occur for approximately 27 months from late 2023 through early 2026.

Off-road Equipment -

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Trips and VMT - Hauling trip length is provided by the applicant.

Grading - The project is proposing to export 15,800 cubic yards of earthwork material.

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Vehicle Trips - Trip generation rates are based on TTM 38128 Scoping Agreement, by Michael Baker International, dated 7/7/2022. The park use within the project site is not expected to generate any additional trips.

Woodstoves - The project is required to comply with SCAQMD Rule 445 - Wood burning devices.

Construction Off-road Equipment Mitigation - The project is expected to comply with SCAQMD Rule 403.

Waste Mitigation - The project is required to comply with AB 341.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	35.00	522.00
tblConstructionPhase	NumDays	440.00	522.00
tblConstructionPhase	NumDays	45.00	43.00
tblConstructionPhase	NumDays	35.00	23.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	81.60	96.00
tblFireplaces	NumberNoFireplace	9.60	0.00
tblFireplaces	NumberWood	4.80	0.00
tblGrading	MaterialExported	0.00	15,800.00
tblLandUse	LotAcreage	31.17	27.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	6.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.13
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.13

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tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.13
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1245	1.3011	1.1883	2.7600e-003	0.1194	0.0531	0.1725	0.0155	0.0489	0.0644	0.0000	244.8998	244.8998	0.0713	3.0300e-003	247.5833
2024	0.4460	2.1140	2.5920	5.7700e-003	0.0939	0.0852	0.1791	0.0252	0.0797	0.1049	0.0000	511.3138	511.3138	0.1154	6.3500e-003	516.0907
2025	0.5311	2.1337	2.9981	6.7500e-003	0.1198	0.0819	0.2016	0.0322	0.0769	0.1090	0.0000	599.9571	599.9571	0.1293	8.0600e-003	605.5937
2026	0.1298	0.5226	0.7312	1.6500e-003	0.0294	0.0201	0.0494	7.8900e-003	0.0188	0.0267	0.0000	146.4959	146.4959	0.0317	1.9200e-003	147.8602
Maximum	0.5311	2.1337	2.9981	6.7500e-003	0.1198	0.0852	0.2016	0.0322	0.0797	0.1090	0.0000	599.9571	599.9571	0.1293	8.0600e-003	605.5937

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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	0.1245	1.3011	1.1883	2.7600e-003	0.0541	0.0531	0.1073	8.3900e-003	0.0489	0.0573	0.0000	244.8996	244.8996	0.0713	3.0300e-003	247.5830
2024	0.4460	2.1140	2.5920	5.7700e-003	0.0939	0.0852	0.1791	0.0252	0.0797	0.1049	0.0000	511.3133	511.3133	0.1154	6.3500e-003	516.0902
2025	0.5311	2.1337	2.9981	6.7500e-003	0.1198	0.0819	0.2016	0.0322	0.0769	0.1090	0.0000	599.9565	599.9565	0.1293	8.0600e-003	605.5931
2026	0.1298	0.5226	0.7312	1.6500e-003	0.0294	0.0201	0.0494	7.8900e-003	0.0188	0.0267	0.0000	146.4958	146.4958	0.0317	1.9200e-003	147.8601
Maximum	0.5311	2.1337	2.9981	6.7500e-003	0.1198	0.0852	0.2016	0.0322	0.0797	0.1090	0.0000	599.9565	599.9565	0.1293	8.0600e-003	605.5931

	ROG	NOx	CO	SO2	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	18.00	0.00	10.82	8.75	0.00	2.32	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	11-1-2023	1-31-2024	1.6897	1.6897
2	2-1-2024	4-30-2024	0.2454	0.2454
3	5-1-2024	7-31-2024	0.7524	0.7524
4	8-1-2024	10-31-2024	0.7528	0.7528
5	11-1-2024	1-31-2025	0.7258	0.7258
6	2-1-2025	4-30-2025	0.6492	0.6492
7	5-1-2025	7-31-2025	0.6705	0.6705
8	8-1-2025	10-31-2025	0.6708	0.6708

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9	11-1-2025	1-31-2026	0.6711	0.6711
10	2-1-2026	4-30-2026	0.4299	0.4299
		Highest	1.6897	1.6897

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	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461
Energy	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	280.5116	280.5116	0.0142	4.0400e-003	282.0723
Mobile	0.4364	0.6794	4.5354	0.0111	1.2559	8.8300e-003	1.2648	0.3355	8.2800e-003	0.3437	0.0000	1,054.7883	1,054.7883	0.0517	0.0503	1,071.0617
Waste						0.0000	0.0000		0.0000	0.0000	22.9116	0.0000	22.9116	1.3540	0.0000	56.7625
Water						0.0000	0.0000		0.0000	0.0000	1.9844	25.4292	27.4136	0.2060	5.0700e-003	34.0742
Total	1.1621	0.8359	5.5862	0.0121	1.2559	0.0261	1.2820	0.3355	0.0255	0.3610	24.8960	1,385.3995	1,410.2955	1.6279	0.0598	1,468.8168

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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	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461
Energy	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	280.5116	280.5116	0.0142	4.0400e-003	282.0723
Mobile	0.4364	0.6794	4.5354	0.0111	1.2559	8.8300e-003	1.2648	0.3355	8.2800e-003	0.3437	0.0000	1,054.7883	1,054.7883	0.0517	0.0503	1,071.0617
Waste						0.0000	0.0000		0.0000	0.0000	5.7279	0.0000	5.7279	0.3385	0.0000	14.1906
Water						0.0000	0.0000		0.0000	0.0000	1.9844	25.4292	27.4136	0.2060	5.0700e-003	34.0742
Total	1.1621	0.8359	5.5862	0.0121	1.2559	0.0261	1.2820	0.3355	0.0255	0.3610	7.7123	1,385.3995	1,393.1118	0.6124	0.0598	1,426.2449

	ROG	NOx	CO	SO2	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	69.02	0.00	1.22	62.38	0.00	2.90

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2023	12/29/2023	5	43	
2	Paving	Paving	1/1/2024	1/31/2024	5	23	
3	Building Construction	Building Construction	4/1/2024	3/31/2026	5	522	

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4	Architectural Coating	Architectural Coating	4/1/2024	3/31/2026	5	522
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 193.5

Acres of Paving: 0

Residential Indoor: 349,920; Residential Outdoor: 116,640; 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
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Pavers	1	8.00	130	0.42
Grading	Paving Equipment	1	8.00	132	0.36
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1		203	0.36
Grading	Scrapers	4	8.00	367	0.48
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Surfacing Equipment	2	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Graders	2	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Surfacing Equipment	2	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	7.00	367	0.48
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	18	45.00	0.00	1,975.00	14.70	6.90	6.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	60.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	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

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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					0.1036	0.0000	0.1036	0.0112	0.0000	0.0112	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1199	1.2532	1.1369	2.4900e-003		0.0527	0.0527		0.0485	0.0485	0.0000	218.8568	218.8568	0.0708	0.0000	220.6264
Total	0.1199	1.2532	1.1369	2.4900e-003	0.1036	0.0527	0.1563	0.0112	0.0485	0.0597	0.0000	218.8568	218.8568	0.0708	0.0000	220.6264

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	1.5000e-003	0.0456	0.0210	1.8000e-004	5.1200e-003	3.7000e-004	5.4900e-003	1.4100e-003	3.5000e-004	1.7600e-003	0.0000	17.8548	17.8548	2.6000e-004	2.8100e-003	18.6996
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	3.1400e-003	2.3300e-003	0.0304	9.0000e-005	0.0106	5.0000e-005	0.0107	2.8200e-003	5.0000e-005	2.8700e-003	0.0000	8.1883	8.1883	2.0000e-004	2.1000e-004	8.2573
Total	4.6400e-003	0.0479	0.0514	2.7000e-004	0.0158	4.2000e-004	0.0162	4.2300e-003	4.0000e-004	4.6300e-003	0.0000	26.0430	26.0430	4.6000e-004	3.0200e-003	26.9569

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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	tons/yr										MT/yr					
Fugitive Dust					0.0384	0.0000	0.0384	4.1600e-003	0.0000	4.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1199	1.2532	1.1369	2.4900e-003		0.0527	0.0527		0.0485	0.0485	0.0000	218.8565	218.8565	0.0708	0.0000	220.6261
Total	0.1199	1.2532	1.1369	2.4900e-003	0.0384	0.0527	0.0911	4.1600e-003	0.0485	0.0527	0.0000	218.8565	218.8565	0.0708	0.0000	220.6261

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	1.5000e-003	0.0456	0.0210	1.8000e-004	5.1200e-003	3.7000e-004	5.4900e-003	1.4100e-003	3.5000e-004	1.7600e-003	0.0000	17.8548	17.8548	2.6000e-004	2.8100e-003	18.6996
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	3.1400e-003	2.3300e-003	0.0304	9.0000e-005	0.0106	5.0000e-005	0.0107	2.8200e-003	5.0000e-005	2.8700e-003	0.0000	8.1883	8.1883	2.0000e-004	2.1000e-004	8.2573
Total	4.6400e-003	0.0479	0.0514	2.7000e-004	0.0158	4.2000e-004	0.0162	4.2300e-003	4.0000e-004	4.6300e-003	0.0000	26.0430	26.0430	4.6000e-004	3.0200e-003	26.9569

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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	0.0260	0.2753	0.2495	6.1000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	53.7984	53.7984	0.0174	0.0000	54.2334
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0260	0.2753	0.2495	6.1000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	53.7984	53.7984	0.0174	0.0000	54.2334

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.9000e-004	9.4700e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	1.0000e-005	9.5000e-004	0.0000	2.6599	2.6599	6.0000e-005	7.0000e-005	2.6812
Total	9.8000e-004	6.9000e-004	9.4700e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	1.0000e-005	9.5000e-004	0.0000	2.6599	2.6599	6.0000e-005	7.0000e-005	2.6812

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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	tons/yr										MT/yr					
Off-Road	0.0260	0.2753	0.2495	6.1000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	53.7984	53.7984	0.0174	0.0000	54.2333
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0260	0.2753	0.2495	6.1000e-004		0.0109	0.0109		0.0101	0.0101	0.0000	53.7984	53.7984	0.0174	0.0000	54.2333

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	6.9000e-004	9.4700e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	1.0000e-005	9.5000e-004	0.0000	2.6599	2.6599	6.0000e-005	7.0000e-005	2.6812
Total	9.8000e-004	6.9000e-004	9.4700e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	1.0000e-005	9.5000e-004	0.0000	2.6599	2.6599	6.0000e-005	7.0000e-005	2.6812

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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	0.1736	1.6353	1.9196	3.8700e-003		0.0673	0.0673		0.0628	0.0628	0.0000	338.4875	338.4875	0.0949	0.0000	340.8590
Total	0.1736	1.6353	1.9196	3.8700e-003		0.0673	0.0673		0.0628	0.0628	0.0000	338.4875	338.4875	0.0949	0.0000	340.8590

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	2.1000e-003	0.0676	0.0266	3.4000e-004	0.0125	5.6000e-004	0.0130	3.5900e-003	5.3000e-004	4.1200e-003	0.0000	32.6348	32.6348	3.5000e-004	4.8200e-003	34.0792
Worker	0.0179	0.0127	0.1738	5.2000e-004	0.0650	3.0000e-004	0.0653	0.0173	2.7000e-004	0.0175	0.0000	48.8198	48.8198	1.1200e-003	1.2200e-003	49.2107
Total	0.0200	0.0802	0.2004	8.6000e-004	0.0774	8.6000e-004	0.0783	0.0208	8.0000e-004	0.0216	0.0000	81.4545	81.4545	1.4700e-003	6.0400e-003	83.2900

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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	tons/yr										MT/yr					
Off-Road	0.1736	1.6353	1.9196	3.8700e-003		0.0673	0.0673		0.0628	0.0628	0.0000	338.4871	338.4871	0.0949	0.0000	340.8586
Total	0.1736	1.6353	1.9196	3.8700e-003		0.0673	0.0673		0.0628	0.0628	0.0000	338.4871	338.4871	0.0949	0.0000	340.8586

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	2.1000e-003	0.0676	0.0266	3.4000e-004	0.0125	5.6000e-004	0.0130	3.5900e-003	5.3000e-004	4.1200e-003	0.0000	32.6348	32.6348	3.5000e-004	4.8200e-003	34.0792
Worker	0.0179	0.0127	0.1738	5.2000e-004	0.0650	3.0000e-004	0.0653	0.0173	2.7000e-004	0.0175	0.0000	48.8198	48.8198	1.1200e-003	1.2200e-003	49.2107
Total	0.0200	0.0802	0.2004	8.6000e-004	0.0774	8.6000e-004	0.0783	0.0208	8.0000e-004	0.0216	0.0000	81.4545	81.4545	1.4700e-003	6.0400e-003	83.2900

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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	0.2091	1.8774	2.4694	5.1200e-003		0.0740	0.0740		0.0690	0.0690	0.0000	448.4334	448.4334	0.1254	0.0000	451.5691
Total	0.2091	1.8774	2.4694	5.1200e-003		0.0740	0.0740		0.0690	0.0690	0.0000	448.4334	448.4334	0.1254	0.0000	451.5691

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	2.7500e-003	0.0888	0.0349	4.4000e-004	0.0165	7.4000e-004	0.0172	4.7600e-003	7.1000e-004	5.4600e-003	0.0000	42.4750	42.4750	4.8000e-004	6.2600e-003	44.3519
Worker	0.0222	0.0150	0.2148	6.7000e-004	0.0861	3.7000e-004	0.0864	0.0229	3.4000e-004	0.0232	0.0000	63.1073	63.1073	1.3400e-003	1.5100e-003	63.5894
Total	0.0250	0.1038	0.2497	1.1100e-003	0.1026	1.1100e-003	0.1037	0.0276	1.0500e-003	0.0287	0.0000	105.5823	105.5823	1.8200e-003	7.7700e-003	107.9413

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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	tons/yr										MT/yr					
Off-Road	0.2091	1.8774	2.4694	5.1200e-003		0.0740	0.0740		0.0690	0.0690	0.0000	448.4329	448.4329	0.1254	0.0000	451.5685
Total	0.2091	1.8774	2.4694	5.1200e-003		0.0740	0.0740		0.0690	0.0690	0.0000	448.4329	448.4329	0.1254	0.0000	451.5685

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	2.7500e-003	0.0888	0.0349	4.4000e-004	0.0165	7.4000e-004	0.0172	4.7600e-003	7.1000e-004	5.4600e-003	0.0000	42.4750	42.4750	4.8000e-004	6.2600e-003	44.3519
Worker	0.0222	0.0150	0.2148	6.7000e-004	0.0861	3.7000e-004	0.0864	0.0229	3.4000e-004	0.0232	0.0000	63.1073	63.1073	1.3400e-003	1.5100e-003	63.5894
Total	0.0250	0.1038	0.2497	1.1100e-003	0.1026	1.1100e-003	0.1037	0.0276	1.0500e-003	0.0287	0.0000	105.5823	105.5823	1.8200e-003	7.7700e-003	107.9413

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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	0.0513	0.4604	0.6055	1.2600e-003		0.0181	0.0181		0.0169	0.0169	0.0000	109.9607	109.9607	0.0308	0.0000	110.7296
Total	0.0513	0.4604	0.6055	1.2600e-003		0.0181	0.0181		0.0169	0.0169	0.0000	109.9607	109.9607	0.0308	0.0000	110.7296

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	6.7000e-004	0.0215	8.4700e-003	1.1000e-004	4.0400e-003	1.8000e-004	4.2200e-003	1.1700e-003	1.7000e-004	1.3400e-003	0.0000	10.2259	10.2259	1.2000e-004	1.5000e-003	10.6770
Worker	5.1200e-003	3.3400e-003	0.0495	1.6000e-004	0.0211	9.0000e-005	0.0212	5.6000e-003	8.0000e-005	5.6800e-003	0.0000	15.1158	15.1158	3.0000e-004	3.5000e-004	15.2267
Total	5.7900e-003	0.0249	0.0579	2.7000e-004	0.0251	2.7000e-004	0.0254	6.7700e-003	2.5000e-004	7.0200e-003	0.0000	25.3417	25.3417	4.2000e-004	1.8500e-003	25.9038

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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	tons/yr										MT/yr					
Off-Road	0.0513	0.4604	0.6055	1.2600e-003		0.0181	0.0181		0.0169	0.0169	0.0000	109.9606	109.9606	0.0308	0.0000	110.7295
Total	0.0513	0.4604	0.6055	1.2600e-003		0.0181	0.0181		0.0169	0.0169	0.0000	109.9606	109.9606	0.0308	0.0000	110.7295

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	6.7000e-004	0.0215	8.4700e-003	1.1000e-004	4.0400e-003	1.8000e-004	4.2200e-003	1.1700e-003	1.7000e-004	1.3400e-003	0.0000	10.2259	10.2259	1.2000e-004	1.5000e-003	10.6770
Worker	5.1200e-003	3.3400e-003	0.0495	1.6000e-004	0.0211	9.0000e-005	0.0212	5.6000e-003	8.0000e-005	5.6800e-003	0.0000	15.1158	15.1158	3.0000e-004	3.5000e-004	15.2267
Total	5.7900e-003	0.0249	0.0579	2.7000e-004	0.0251	2.7000e-004	0.0254	6.7700e-003	2.5000e-004	7.0200e-003	0.0000	25.3417	25.3417	4.2000e-004	1.8500e-003	25.9038

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3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2040					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1201	0.1783	2.9000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	25.1496	25.1496	1.4200e-003	0.0000	25.1850
Total	0.2218	0.1201	0.1783	2.9000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	25.1496	25.1496	1.4200e-003	0.0000	25.1850

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	3.5800e-003	2.5300e-003	0.0348	1.0000e-004	0.0130	6.0000e-005	0.0131	3.4500e-003	5.0000e-005	3.5000e-003	0.0000	9.7640	9.7640	2.2000e-004	2.4000e-004	9.8422
Total	3.5800e-003	2.5300e-003	0.0348	1.0000e-004	0.0130	6.0000e-005	0.0131	3.4500e-003	5.0000e-005	3.5000e-003	0.0000	9.7640	9.7640	2.2000e-004	2.4000e-004	9.8422

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3.5 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2040					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1201	0.1783	2.9000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	25.1495	25.1495	1.4200e-003	0.0000	25.1849
Total	0.2218	0.1201	0.1783	2.9000e-004		6.0000e-003	6.0000e-003		6.0000e-003	6.0000e-003	0.0000	25.1495	25.1495	1.4200e-003	0.0000	25.1849

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	3.5800e-003	2.5300e-003	0.0348	1.0000e-004	0.0130	6.0000e-005	0.0131	3.4500e-003	5.0000e-005	3.5000e-003	0.0000	9.7640	9.7640	2.2000e-004	2.4000e-004	9.8422
Total	3.5800e-003	2.5300e-003	0.0348	1.0000e-004	0.0130	6.0000e-005	0.0131	3.4500e-003	5.0000e-005	3.5000e-003	0.0000	9.7640	9.7640	2.2000e-004	2.4000e-004	9.8422

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3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654
Total	0.2926	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3200	33.3200	1.8200e-003	0.0000	33.3654

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	3.0100e-003	0.0430	1.3000e-004	0.0172	7.0000e-005	0.0173	4.5700e-003	7.0000e-005	4.6400e-003	0.0000	12.6215	12.6215	2.7000e-004	3.0000e-004	12.7179
Total	4.4400e-003	3.0100e-003	0.0430	1.3000e-004	0.0172	7.0000e-005	0.0173	4.5700e-003	7.0000e-005	4.6400e-003	0.0000	12.6215	12.6215	2.7000e-004	3.0000e-004	12.7179

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3.5 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0223	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654
Total	0.2926	0.1495	0.2361	3.9000e-004		6.7200e-003	6.7200e-003		6.7200e-003	6.7200e-003	0.0000	33.3199	33.3199	1.8200e-003	0.0000	33.3654

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4400e-003	3.0100e-003	0.0430	1.3000e-004	0.0172	7.0000e-005	0.0173	4.5700e-003	7.0000e-005	4.6400e-003	0.0000	12.6215	12.6215	2.7000e-004	3.0000e-004	12.7179
Total	4.4400e-003	3.0100e-003	0.0430	1.3000e-004	0.0172	7.0000e-005	0.0173	4.5700e-003	7.0000e-005	4.6400e-003	0.0000	12.6215	12.6215	2.7000e-004	3.0000e-004	12.7179

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Archit. Coating	0.0663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4700e-003	0.0367	0.0579	1.0000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	8.1704	8.1704	4.5000e-004	0.0000	8.1816
Total	0.0718	0.0367	0.0579	1.0000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	8.1704	8.1704	4.5000e-004	0.0000	8.1816

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	1.0200e-003	6.7000e-004	9.8900e-003	3.0000e-005	4.2200e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0232	3.0232	6.0000e-005	7.0000e-005	3.0454
Total	1.0200e-003	6.7000e-004	9.8900e-003	3.0000e-005	4.2200e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0232	3.0232	6.0000e-005	7.0000e-005	3.0454

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Archit. Coating	0.0663					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4700e-003	0.0367	0.0579	1.0000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	8.1704	8.1704	4.5000e-004	0.0000	8.1815
Total	0.0718	0.0367	0.0579	1.0000e-004		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	8.1704	8.1704	4.5000e-004	0.0000	8.1815

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	1.0200e-003	6.7000e-004	9.8900e-003	3.0000e-005	4.2200e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0232	3.0232	6.0000e-005	7.0000e-005	3.0454
Total	1.0200e-003	6.7000e-004	9.8900e-003	3.0000e-005	4.2200e-003	2.0000e-005	4.2400e-003	1.1200e-003	2.0000e-005	1.1400e-003	0.0000	3.0232	3.0232	6.0000e-005	7.0000e-005	3.0454

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4364	0.6794	4.5354	0.0111	1.2559	8.8300e-003	1.2648	0.3355	8.2800e-003	0.3437	0.0000	1,054.7883	1,054.7883	0.0517	0.0503	1,071.0617
Unmitigated	0.4364	0.6794	4.5354	0.0111	1.2559	8.8300e-003	1.2648	0.3355	8.2800e-003	0.3437	0.0000	1,054.7883	1,054.7883	0.0517	0.0503	1,071.0617

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	972.10	972.10	972.10	3,321,800	3,321,800
Total	972.10	972.10	972.10	3,321,800	3,321,800

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

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	135.5997	135.5997	0.0115	1.3900e-003	136.2992
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	135.5997	135.5997	0.0115	1.3900e-003	136.2992
NaturalGas Mitigated	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730
NaturalGas Unmitigated	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730

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

5.2 Energy by Land Use - 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	2.71555e+006	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730
Total		0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730

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	2.71555e+006	0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730
Total		0.0146	0.1251	0.0533	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.9119	144.9119	2.7800e-003	2.6600e-003	145.7730

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	764607	135.5997	0.0115	1.3900e-003	136.2992
Total		135.5997	0.0115	1.3900e-003	136.2992

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	764607	135.5997	0.0115	1.3900e-003	136.2992
Total		135.5997	0.0115	1.3900e-003	136.2992

6.0 Area Detail

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive 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	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461
Unmitigated	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3300e-003	0.0199	8.4700e-003	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0532	23.0532	4.4000e-004	4.2000e-004	23.1902
Landscaping	0.0297	0.0114	0.9891	5.0000e-005		5.4900e-003	5.4900e-003		5.4900e-003	5.4900e-003	0.0000	1.6172	1.6172	1.5500e-003	0.0000	1.6559
Total	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0541					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6250					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3300e-003	0.0199	8.4700e-003	1.3000e-004		1.6100e-003	1.6100e-003		1.6100e-003	1.6100e-003	0.0000	23.0532	23.0532	4.4000e-004	4.2000e-004	23.1902
Landscaping	0.0297	0.0114	0.9891	5.0000e-005		5.4900e-003	5.4900e-003		5.4900e-003	5.4900e-003	0.0000	1.6172	1.6172	1.5500e-003	0.0000	1.6559
Total	0.7111	0.0313	0.9976	1.8000e-004		7.1000e-003	7.1000e-003		7.1000e-003	7.1000e-003	0.0000	24.6704	24.6704	1.9900e-003	4.2000e-004	24.8461

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.4136	0.2060	5.0700e-003	34.0742
Unmitigated	27.4136	0.2060	5.0700e-003	34.0742

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.63233	3.2162	2.7000e-004	3.0000e-005	3.2328
Single Family Housing	6.25479 / 3.94323	24.1974	0.2057	5.0400e-003	30.8414
Total		27.4136	0.2060	5.0700e-003	34.0742

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.63233	3.2162	2.7000e-004	3.0000e-005	3.2328
Single Family Housing	6.25479 / 3.94323	24.1974	0.2057	5.0400e-003	30.8414
Total		27.4136	0.2060	5.0700e-003	34.0742

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.7279	0.3385	0.0000	14.1906
Unmitigated	22.9116	1.3540	0.0000	56.7625

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	112.75	22.8872	1.3526	0.0000	56.7022
Total		22.9116	1.3540	0.0000	56.7625

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.03	6.0900e-003	3.6000e-004	0.0000	0.0151
Single Family Housing	28.1875	5.7218	0.3382	0.0000	14.1755
Total		5.7279	0.3385	0.0000	14.1906

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
----------------	--------

11.0 Vegetation

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Annual

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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

**Menifee TTM 38128 Residential Lots
Riverside-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.37	Acre	1.37	59,677.20	0
Single Family Housing	96.00	Dwelling Unit	27.01	172,800.00	275

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 - The proposed project consists of the development of 96 single-family detached residential units and 1.37 acre park on an approximately 28.38-acre site.

Construction Phase - Project construction would occur as a single phase and is anticipated to occur for approximately 27 months from late 2023 through early 2026.

Off-road Equipment -

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Trips and VMT - Hauling trip length is provided by the applicant.

Grading - The project is proposing to export 15,800 cubic yards of earthwork material.

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

Vehicle Trips - Trip generation rates are based on TTM 38128 Scoping Agreement, by Michael Baker International, dated 7/7/2022. The park use within the project site is not expected to generate any additional trips.

Woodstoves - The project is required to comply with SCAQMD Rule 445 - Wood burning devices.

Construction Off-road Equipment Mitigation - The project is expected to comply with SCAQMD Rule 403.

Waste Mitigation - The project is required to comply with AB 341.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	35.00	522.00
tblConstructionPhase	NumDays	440.00	522.00
tblConstructionPhase	NumDays	45.00	43.00
tblConstructionPhase	NumDays	35.00	23.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	81.60	96.00
tblFireplaces	NumberNoFireplace	9.60	0.00
tblFireplaces	NumberWood	4.80	0.00
tblGrading	MaterialExported	0.00	15,800.00
tblLandUse	LotAcreage	31.17	27.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	6.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.13
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.13

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.13
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	5.8118	60.4094	55.4963	0.1289	5.5636	2.4715	8.0351	0.7221	2.2744	2.9965	0.0000	12,587.2928	12,587.2928	3.6531	0.1545	12,724.6605
2024	4.2819	23.9912	24.0373	0.0559	0.9329	0.9522	1.6862	0.2503	0.8761	0.9591	0.0000	5,431.6869	5,431.6869	1.6736	0.0695	5,475.3461
2025	4.0956	16.3098	23.2993	0.0522	0.9329	0.6274	1.5603	0.2503	0.5890	0.8393	0.0000	5,117.3544	5,117.3544	1.0924	0.0674	5,164.7547
2026	4.0815	16.2911	23.1550	0.0520	0.9329	0.6272	1.5601	0.2503	0.5888	0.8391	0.0000	5,094.7442	5,094.7442	1.0913	0.0655	5,141.5422
Maximum	5.8118	60.4094	55.4963	0.1289	5.5636	2.4715	8.0351	0.7221	2.2744	2.9965	0.0000	12,587.2928	12,587.2928	3.6531	0.1545	12,724.6605

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Energy	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Mobile	2.7859	3.4981	27.2302	0.0645	7.0165	0.0486	7.0651	1.8716	0.0455	1.9171		6,772.3438	6,772.3438	0.3070	0.2968	6,868.4768
Total	7.0108	5.8674	36.1124	0.0794	7.0165	0.2767	7.2931	1.8716	0.2736	2.1452	0.0000	9,694.8231	9,694.8231	0.3764	0.3502	9,808.5796

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	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Energy	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Mobile	2.7859	3.4981	27.2302	0.0645	7.0165	0.0486	7.0651	1.8716	0.0455	1.9171		6,772.3438	6,772.3438	0.3070	0.2968	6,868.4768
Total	7.0108	5.8674	36.1124	0.0794	7.0165	0.2767	7.2931	1.8716	0.2736	2.1452	0.0000	9,694.8231	9,694.8231	0.3764	0.3502	9,808.5796

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2023	12/29/2023	5	43	
2	Paving	Paving	1/1/2024	1/31/2024	5	23	
3	Building Construction	Building Construction	4/1/2024	3/31/2026	5	522	
4	Architectural Coating	Architectural Coating	4/1/2024	3/31/2026	5	522	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 193.5

Acres of Paving: 0

Residential Indoor: 349,920; Residential Outdoor: 116,640; 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
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Pavers	1	8.00	130	0.42
Grading	Paving Equipment	1	8.00	132	0.36
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1		203	0.36

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

Grading	Scrapers	4	8.00	367	0.48
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Surfacing Equipment	2	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Graders	2	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Surfacing Equipment	2	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	7.00	367	0.48
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	18	45.00	0.00	1,975.00	14.70	6.90	6.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	60.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

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	lb/day										lb/day					
Fugitive Dust					4.8188	0.0000	4.8188	0.5223	0.0000	0.5223			0.0000			0.0000
Off-Road	5.5745	58.2891	52.8783	0.1159		2.4522	2.4522		2.2560	2.2560		11,220.85 20	11,220.85 20	3.6291		11,311.57 83
Total	5.5745	58.2891	52.8783	0.1159	4.8188	2.4522	7.2710	0.5223	2.2560	2.7784		11,220.85 20	11,220.85 20	3.6291		11,311.57 83

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

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	lb/day										lb/day					
Hauling	0.0730	2.0187	0.9671	8.5600e-003	0.2418	0.0170	0.2588	0.0664	0.0162	0.0826		913.6494	913.6494	0.0137	0.1439	956.8865
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	0.1644	0.1016	1.6509	4.4200e-003	0.5030	2.3600e-003	0.5054	0.1334	2.1700e-003	0.1356		452.7914	452.7914	0.0103	0.0106	456.1958
Total	0.2374	2.1203	2.6180	0.0130	0.7448	0.0193	0.7642	0.1998	0.0184	0.2182		1,366.4408	1,366.4408	0.0240	0.1545	1,413.0823

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7854	0.0000	1.7854	0.1935	0.0000	0.1935			0.0000			0.0000
Off-Road	5.5745	58.2891	52.8783	0.1159		2.4522	2.4522		2.2560	2.2560	0.0000	11,220.8520	11,220.8520	3.6291		11,311.5783
Total	5.5745	58.2891	52.8783	0.1159	1.7854	2.4522	4.2376	0.1935	2.2560	2.4495	0.0000	11,220.8520	11,220.8520	3.6291		11,311.5783

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

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	lb/day										lb/day					
Hauling	0.0730	2.0187	0.9671	8.5600e-003	0.2418	0.0170	0.2588	0.0664	0.0162	0.0826		913.6494	913.6494	0.0137	0.1439	956.8865
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	0.1644	0.1016	1.6509	4.4200e-003	0.5030	2.3600e-003	0.5054	0.1334	2.1700e-003	0.1356		452.7914	452.7914	0.0103	0.0106	456.1958
Total	0.2374	2.1203	2.6180	0.0130	0.7448	0.0193	0.7642	0.1998	0.0184	0.2182		1,366.4408	1,366.4408	0.0240	0.1545	1,413.0823

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	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748		5,156.7478	5,156.7478	1.6678		5,198.4427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748		5,156.7478	5,156.7478	1.6678		5,198.4427

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0954	0.0563	0.9618	2.6700e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		274.9391	274.9391	5.8300e-003	6.1000e-003	276.9034
Total	0.0954	0.0563	0.9618	2.6700e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		274.9391	274.9391	5.8300e-003	6.1000e-003	276.9034

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	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748	0.0000	5,156.7478	5,156.7478	1.6678		5,198.4427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748	0.0000	5,156.7478	5,156.7478	1.6678		5,198.4427

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0954	0.0563	0.9618	2.6700e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		274.9391	274.9391	5.8300e-003	6.1000e-003	276.9034
Total	0.0954	0.0563	0.9618	2.6700e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		274.9391	274.9391	5.8300e-003	6.1000e-003	276.9034

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	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374		3,788.0056	3,788.0056	1.0616		3,814.5455
Total	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374		3,788.0056	3,788.0056	1.0616		3,814.5455

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0222	0.6535	0.2660	3.4400e-003	0.1281	5.6500e-003	0.1338	0.0369	5.4100e-003	0.0423		364.8312	364.8312	3.9100e-003	0.0538	380.9703
Worker	0.2044	0.1207	2.0611	5.7100e-003	0.6707	3.0100e-003	0.6737	0.1779	2.7700e-003	0.1806		589.1553	589.1553	0.0125	0.0131	593.3645
Total	0.2266	0.7742	2.3270	9.1500e-003	0.7988	8.6600e-003	0.8074	0.2147	8.1800e-003	0.2229		953.9864	953.9864	0.0164	0.0669	974.3347

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	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374	0.0000	3,788.0056	3,788.0056	1.0616		3,814.5455
Total	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374	0.0000	3,788.0056	3,788.0056	1.0616		3,814.5455

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0222	0.6535	0.2660	3.4400e-003	0.1281	5.6500e-003	0.1338	0.0369	5.4100e-003	0.0423		364.8312	364.8312	3.9100e-003	0.0538	380.9703
Worker	0.2044	0.1207	2.0611	5.7100e-003	0.6707	3.0100e-003	0.6737	0.1779	2.7700e-003	0.1806		589.1553	589.1553	0.0125	0.0131	593.3645
Total	0.2266	0.7742	2.3270	9.1500e-003	0.7988	8.6600e-003	0.8074	0.2147	8.1800e-003	0.2229		953.9864	953.9864	0.0164	0.0669	974.3347

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0219	0.6481	0.2630	3.3800e-003	0.1281	5.6600e-003	0.1338	0.0369	5.4100e-003	0.0423		358.4002	358.4002	4.0600e-003	0.0528	374.2287
Worker	0.1911	0.1083	1.9208	5.5200e-003	0.6707	2.8600e-003	0.6735	0.1779	2.6300e-003	0.1805		574.7211	574.7211	0.0113	0.0122	578.6392
Total	0.2130	0.7564	2.1837	8.9000e-003	0.7988	8.5200e-003	0.8073	0.2147	8.0400e-003	0.2228		933.1213	933.1213	0.0153	0.0650	952.8678

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0219	0.6481	0.2630	3.3800e-003	0.1281	5.6600e-003	0.1338	0.0369	5.4100e-003	0.0423		358.4002	358.4002	4.0600e-003	0.0528	374.2287
Worker	0.1911	0.1083	1.9208	5.5200e-003	0.6707	2.8600e-003	0.6735	0.1779	2.6300e-003	0.1805		574.7211	574.7211	0.0113	0.0122	578.6392
Total	0.2130	0.7564	2.1837	8.9000e-003	0.7988	8.5200e-003	0.8073	0.2147	8.0400e-003	0.2228		933.1213	933.1213	0.0153	0.0650	952.8678

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0216	0.6416	0.2604	3.3100e-003	0.1281	5.6300e-003	0.1337	0.0369	5.3900e-003	0.0423		351.8795	351.8795	4.2000e-003	0.0517	367.3955
Worker	0.1795	0.0980	1.8026	5.3400e-003	0.6707	2.7100e-003	0.6734	0.1779	2.5000e-003	0.1804		561.3133	561.3133	0.0102	0.0115	564.9898
Total	0.2011	0.7396	2.0630	8.6500e-003	0.7988	8.3400e-003	0.8071	0.2147	7.8900e-003	0.2226		913.1927	913.1927	0.0144	0.0632	932.3852

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0216	0.6416	0.2604	3.3100e-003	0.1281	5.6300e-003	0.1337	0.0369	5.3900e-003	0.0423		351.8795	351.8795	4.2000e-003	0.0517	367.3955
Worker	0.1795	0.0980	1.8026	5.3400e-003	0.6707	2.7100e-003	0.6734	0.1779	2.5000e-003	0.1804		561.3133	561.3133	0.0102	0.0115	564.9898
Total	0.2011	0.7396	2.0630	8.6500e-003	0.7988	8.3400e-003	0.8071	0.2147	7.8900e-003	0.2226		913.1927	913.1927	0.0144	0.0632	932.3852

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	2.2521	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0409	0.0241	0.4122	1.1400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		117.8311	117.8311	2.5000e-003	2.6200e-003	118.6729
Total	0.0409	0.0241	0.4122	1.1400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		117.8311	117.8311	2.5000e-003	2.6200e-003	118.6729

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	2.0714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	2.2521	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0409	0.0241	0.4122	1.1400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		117.8311	117.8311	2.5000e-003	2.6200e-003	118.6729
Total	0.0409	0.0241	0.4122	1.1400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		117.8311	117.8311	2.5000e-003	2.6200e-003	118.6729

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0714					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	2.2422	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0382	0.0217	0.3842	1.1000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		114.9442	114.9442	2.2500e-003	2.4400e-003	115.7278
Total	0.0382	0.0217	0.3842	1.1000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		114.9442	114.9442	2.2500e-003	2.4400e-003	115.7278

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	2.0714					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	2.2422	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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

3.5 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0382	0.0217	0.3842	1.1000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		114.9442	114.9442	2.2500e-003	2.4400e-003	115.7278
Total	0.0382	0.0217	0.3842	1.1000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		114.9442	114.9442	2.2500e-003	2.4400e-003	115.7278

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	2.0714					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	2.2422	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0359	0.0196	0.3605	1.0700e-003	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		112.2627	112.2627	2.0400e-003	2.3000e-003	112.9980
Total	0.0359	0.0196	0.3605	1.0700e-003	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		112.2627	112.2627	2.0400e-003	2.3000e-003	112.9980

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	2.0714					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	2.2422	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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0359	0.0196	0.3605	1.0700e-003	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		112.2627	112.2627	2.0400e-003	2.3000e-003	112.9980
Total	0.0359	0.0196	0.3605	1.0700e-003	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		112.2627	112.2627	2.0400e-003	2.3000e-003	112.9980

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7859	3.4981	27.2302	0.0645	7.0165	0.0486	7.0651	1.8716	0.0455	1.9171		6,772.3438	6,772.3438	0.3070	0.2968	6,868.4768
Unmitigated	2.7859	3.4981	27.2302	0.0645	7.0165	0.0486	7.0651	1.8716	0.0455	1.9171		6,772.3438	6,772.3438	0.3070	0.2968	6,868.4768

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	972.10	972.10	972.10	3,321,800	3,321,800
Total	972.10	972.10	972.10	3,321,800	3,321,800

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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
NaturalGas Unmitigated	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

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	7439.85	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Total		0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	7.43985	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Total		0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

6.0 Area Detail

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	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Unmitigated	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	0.2376	0.0912	7.9128	4.2000e-004		0.0439	0.0439		0.0439	0.0439		14.2613	14.2613	0.0137		14.6028
Total	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	0.2376	0.0912	7.9128	4.2000e-004		0.0439	0.0439		0.0439	0.0439		14.2613	14.2613	0.0137		14.6028
Total	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

7.0 Water Detail

7.1 Mitigation Measures Water

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

**Menifee TTM 38128 Residential Lots
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	1.37	Acre	1.37	59,677.20	0
Single Family Housing	96.00	Dwelling Unit	27.01	172,800.00	275

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 - The proposed project consists of the development of 96 single-family detached residential units and 1.37 acre park on an approximately 28.38-acre site.

Construction Phase - Project construction would occur as a single phase and is anticipated to occur for approximately 27 months from late 2023 through early 2026.

Off-road Equipment -

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Off-road Equipment - Construction equipment list is provided by the applicant.

Trips and VMT - Hauling trip length is provided by the applicant.

Grading - The project is proposing to export 15,800 cubic yards of earthwork material.

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

Vehicle Trips - Trip generation rates are based on TTM 38128 Scoping Agreement, by Michael Baker International, dated 7/7/2022. The park use within the project site is not expected to generate any additional trips.

Woodstoves - The project is required to comply with SCAQMD Rule 445 - Wood burning devices.

Construction Off-road Equipment Mitigation - The project is expected to comply with SCAQMD Rule 403.

Waste Mitigation - The project is required to comply with AB 341.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	35.00	522.00
tblConstructionPhase	NumDays	440.00	522.00
tblConstructionPhase	NumDays	45.00	43.00
tblConstructionPhase	NumDays	35.00	23.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	81.60	96.00
tblFireplaces	NumberNoFireplace	9.60	0.00
tblFireplaces	NumberWood	4.80	0.00
tblGrading	MaterialExported	0.00	15,800.00
tblLandUse	LotAcreage	31.17	27.01
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripLength	20.00	6.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.54	10.13
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	8.55	10.13

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.44	10.13
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	5.7934	60.5515	55.2127	0.1285	5.5636	2.4716	8.0352	0.7221	2.2745	2.9966	0.0000	12,548.9863	12,548.9863	3.6526	0.1554	12,686.6151
2024	4.2656	23.9933	23.5824	0.0557	0.9329	0.9522	1.6863	0.2503	0.8761	0.9591	0.0000	5,405.9138	5,405.9138	1.6736	0.0701	5,449.6149
2025	4.0808	16.3539	22.8784	0.0516	0.9329	0.6274	1.5603	0.2503	0.5890	0.8393	0.0000	5,053.7678	5,053.7678	1.0923	0.0679	5,101.3189
2026	4.0681	16.3343	22.7622	0.0514	0.9329	0.6272	1.5601	0.2503	0.5888	0.8391	0.0000	5,032.7739	5,032.7739	1.0912	0.0660	5,079.7155
Maximum	5.7934	60.5515	55.2127	0.1285	5.5636	2.4716	8.0352	0.7221	2.2745	2.9966	0.0000	12,548.9863	12,548.9863	3.6526	0.1554	12,686.6151

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Energy	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Mobile	2.3691	3.7163	24.1346	0.0599	7.0165	0.0486	7.0651	1.8716	0.0456	1.9171		6,288.8717	6,288.8717	0.3137	0.3030	6,387.0119
Total	6.5940	6.0856	33.0168	0.0748	7.0165	0.2767	7.2932	1.8716	0.2736	2.1452	0.0000	9,211.3510	9,211.3510	0.3831	0.3563	9,327.1147

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	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Energy	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Mobile	2.3691	3.7163	24.1346	0.0599	7.0165	0.0486	7.0651	1.8716	0.0456	1.9171		6,288.8717	6,288.8717	0.3137	0.3030	6,387.0119
Total	6.5940	6.0856	33.0168	0.0748	7.0165	0.2767	7.2932	1.8716	0.2736	2.1452	0.0000	9,211.3510	9,211.3510	0.3831	0.3563	9,327.1147

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/1/2023	12/29/2023	5	43	
2	Paving	Paving	1/1/2024	1/31/2024	5	23	
3	Building Construction	Building Construction	4/1/2024	3/31/2026	5	522	
4	Architectural Coating	Architectural Coating	4/1/2024	3/31/2026	5	522	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 193.5

Acres of Paving: 0

Residential Indoor: 349,920; Residential Outdoor: 116,640; 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
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Off-Highway Tractors	1	8.00	124	0.44
Grading	Pavers	1	8.00	130	0.42
Grading	Paving Equipment	1	8.00	132	0.36
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Loaders	1		203	0.36

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

Grading	Scrapers	4	8.00	367	0.48
Grading	Skid Steer Loaders	2	8.00	65	0.37
Grading	Surfacing Equipment	2	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Paving	Graders	2	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Rubber Tired Loaders	1	8.00	203	0.36
Paving	Surfacing Equipment	2	8.00	263	0.30
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Rubber Tired Loaders	1	8.00	203	0.36
Building Construction	Scrapers	1	7.00	367	0.48
Building Construction	Skid Steer Loaders	1	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	18	45.00	0.00	1,975.00	14.70	6.90	6.00	LD_Mix	HDT_Mix	HHDT
Paving	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	60.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

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	lb/day										lb/day					
Fugitive Dust					4.8188	0.0000	4.8188	0.5223	0.0000	0.5223			0.0000			0.0000
Off-Road	5.5745	58.2891	52.8783	0.1159		2.4522	2.4522		2.2560	2.2560		11,220.85 20	11,220.85 20	3.6291		11,311.57 83
Total	5.5745	58.2891	52.8783	0.1159	4.8188	2.4522	7.2710	0.5223	2.2560	2.7784		11,220.85 20	11,220.85 20	3.6291		11,311.57 83

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

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	lb/day										lb/day					
Hauling	0.0648	2.1570	0.9938	8.6000e-003	0.2418	0.0171	0.2589	0.0664	0.0163	0.0827		917.8647	917.8647	0.0133	0.1446	961.2898
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	0.1541	0.1054	1.3405	4.0100e-003	0.5030	2.3600e-003	0.5054	0.1334	2.1700e-003	0.1356		410.2697	410.2697	0.0103	0.0108	413.7470
Total	0.2189	2.2624	2.3344	0.0126	0.7448	0.0194	0.7642	0.1998	0.0185	0.2182		1,328.1343	1,328.1343	0.0236	0.1554	1,375.0368

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7854	0.0000	1.7854	0.1935	0.0000	0.1935			0.0000			0.0000
Off-Road	5.5745	58.2891	52.8783	0.1159		2.4522	2.4522		2.2560	2.2560	0.0000	11,220.8520	11,220.8520	3.6291		11,311.5783
Total	5.5745	58.2891	52.8783	0.1159	1.7854	2.4522	4.2376	0.1935	2.2560	2.4495	0.0000	11,220.8520	11,220.8520	3.6291		11,311.5783

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

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	lb/day										lb/day					
Hauling	0.0648	2.1570	0.9938	8.6000e-003	0.2418	0.0171	0.2589	0.0664	0.0163	0.0827		917.8647	917.8647	0.0133	0.1446	961.2898
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	0.1541	0.1054	1.3405	4.0100e-003	0.5030	2.3600e-003	0.5054	0.1334	2.1700e-003	0.1356		410.2697	410.2697	0.0103	0.0108	413.7470
Total	0.2189	2.2624	2.3344	0.0126	0.7448	0.0194	0.7642	0.1998	0.0185	0.2182		1,328.1343	1,328.1343	0.0236	0.1554	1,375.0368

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	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748		5,156.7478	5,156.7478	1.6678		5,198.4427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748		5,156.7478	5,156.7478	1.6678		5,198.4427

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0897	0.0584	0.7814	2.4200e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		249.1660	249.1660	5.8200e-003	6.2400e-003	251.1722
Total	0.0897	0.0584	0.7814	2.4200e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		249.1660	249.1660	5.8200e-003	6.2400e-003	251.1722

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	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748	0.0000	5,156.7478	5,156.7478	1.6678		5,198.4427
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2631	23.9349	21.6929	0.0533		0.9508	0.9508		0.8748	0.8748	0.0000	5,156.7478	5,156.7478	1.6678		5,198.4427

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0897	0.0584	0.7814	2.4200e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		249.1660	249.1660	5.8200e-003	6.2400e-003	251.1722
Total	0.0897	0.0584	0.7814	2.4200e-003	0.3130	1.4000e-003	0.3144	0.0830	1.2900e-003	0.0843		249.1660	249.1660	5.8200e-003	6.2400e-003	251.1722

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	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374		3,788.0056	3,788.0056	1.0616		3,814.5455
Total	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374		3,788.0056	3,788.0056	1.0616		3,814.5455

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0205	0.6931	0.2750	3.4500e-003	0.1281	5.6700e-003	0.1338	0.0369	5.4300e-003	0.0423		365.7429	365.7429	3.8400e-003	0.0540	381.9332
Worker	0.1921	0.1252	1.6744	5.1800e-003	0.6707	3.0100e-003	0.6737	0.1779	2.7700e-003	0.1806		533.9271	533.9271	0.0125	0.0134	538.2262
Total	0.2127	0.8183	1.9494	8.6300e-003	0.7988	8.6800e-003	0.8074	0.2147	8.2000e-003	0.2229		899.6700	899.6700	0.0163	0.0674	920.1594

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	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374	0.0000	3,788.0056	3,788.0056	1.0616		3,814.5455
Total	1.7623	16.6015	19.4880	0.0393		0.6832	0.6832		0.6374	0.6374	0.0000	3,788.0056	3,788.0056	1.0616		3,814.5455

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0205	0.6931	0.2750	3.4500e-003	0.1281	5.6700e-003	0.1338	0.0369	5.4300e-003	0.0423		365.7429	365.7429	3.8400e-003	0.0540	381.9332
Worker	0.1921	0.1252	1.6744	5.1800e-003	0.6707	3.0100e-003	0.6737	0.1779	2.7700e-003	0.1806		533.9271	533.9271	0.0125	0.0134	538.2262
Total	0.2127	0.8183	1.9494	8.6300e-003	0.7988	8.6800e-003	0.8074	0.2147	8.2000e-003	0.2229		899.6700	899.6700	0.0163	0.0674	920.1594

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0202	0.6874	0.2720	3.3900e-003	0.1281	5.6800e-003	0.1338	0.0369	5.4300e-003	0.0423		359.3011	359.3011	3.9800e-003	0.0530	375.1795
Worker	0.1801	0.1123	1.5624	5.0000e-003	0.6707	2.8600e-003	0.6735	0.1779	2.6300e-003	0.1805		520.9816	520.9816	0.0113	0.0125	524.9836
Total	0.2004	0.7996	1.8344	8.3900e-003	0.7988	8.5400e-003	0.8073	0.2147	8.0600e-003	0.2228		880.2826	880.2826	0.0153	0.0654	900.1631

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0202	0.6874	0.2720	3.3900e-003	0.1281	5.6800e-003	0.1338	0.0369	5.4300e-003	0.0423		359.3011	359.3011	3.9800e-003	0.0530	375.1795
Worker	0.1801	0.1123	1.5624	5.0000e-003	0.6707	2.8600e-003	0.6735	0.1779	2.6300e-003	0.1805		520.9816	520.9816	0.0113	0.0125	524.9836
Total	0.2004	0.7996	1.8344	8.3900e-003	0.7988	8.5400e-003	0.8073	0.2147	8.0600e-003	0.2228		880.2826	880.2826	0.0153	0.0654	900.1631

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289		3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0200	0.6805	0.2695	3.3200e-003	0.1281	5.6500e-003	0.1337	0.0369	5.4100e-003	0.0423		352.7678	352.7678	4.1300e-003	0.0519	368.3326
Worker	0.1697	0.1016	1.4677	4.8500e-003	0.6707	2.7100e-003	0.6734	0.1779	2.5000e-003	0.1804		508.9311	508.9311	0.0102	0.0117	512.6865
Total	0.1897	0.7821	1.7371	8.1700e-003	0.7988	8.3600e-003	0.8071	0.2147	7.9100e-003	0.2227		861.6989	861.6989	0.0144	0.0636	881.0191

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	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272
Total	1.6022	14.3863	18.9223	0.0393		0.5668	0.5668		0.5289	0.5289	0.0000	3,787.8408	3,787.8408	1.0595		3,814.3272

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0200	0.6805	0.2695	3.3200e-003	0.1281	5.6500e-003	0.1337	0.0369	5.4100e-003	0.0423		352.7678	352.7678	4.1300e-003	0.0519	368.3326
Worker	0.1697	0.1016	1.4677	4.8500e-003	0.6707	2.7100e-003	0.6734	0.1779	2.5000e-003	0.1804		508.9311	508.9311	0.0102	0.0117	512.6865
Total	0.1897	0.7821	1.7371	8.1700e-003	0.7988	8.3600e-003	0.8071	0.2147	7.9100e-003	0.2227		861.6989	861.6989	0.0144	0.0636	881.0191

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	2.2521	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0384	0.0250	0.3349	1.0400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		106.7854	106.7854	2.4900e-003	2.6800e-003	107.6452
Total	0.0384	0.0250	0.3349	1.0400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		106.7854	106.7854	2.4900e-003	2.6800e-003	107.6452

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	2.0714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	2.2521	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0384	0.0250	0.3349	1.0400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		106.7854	106.7854	2.4900e-003	2.6800e-003	107.6452
Total	0.0384	0.0250	0.3349	1.0400e-003	0.1341	6.0000e-004	0.1347	0.0356	5.5000e-004	0.0361		106.7854	106.7854	2.4900e-003	2.6800e-003	107.6452

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.0714					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	2.2422	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0360	0.0225	0.3125	1.0000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		104.1963	104.1963	2.2500e-003	2.5000e-003	104.9967
Total	0.0360	0.0225	0.3125	1.0000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		104.1963	104.1963	2.2500e-003	2.5000e-003	104.9967

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	2.0714					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	2.2422	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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

3.5 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0360	0.0225	0.3125	1.0000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		104.1963	104.1963	2.2500e-003	2.5000e-003	104.9967
Total	0.0360	0.0225	0.3125	1.0000e-003	0.1341	5.7000e-004	0.1347	0.0356	5.3000e-004	0.0361		104.1963	104.1963	2.2500e-003	2.5000e-003	104.9967

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	2.0714					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	2.2422	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0340	0.0203	0.2935	9.7000e-004	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		101.7862	101.7862	2.0500e-003	2.3500e-003	102.5373
Total	0.0340	0.0203	0.2935	9.7000e-004	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		101.7862	101.7862	2.0500e-003	2.3500e-003	102.5373

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	2.0714					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	2.2422	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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0340	0.0203	0.2935	9.7000e-004	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		101.7862	101.7862	2.0500e-003	2.3500e-003	102.5373
Total	0.0340	0.0203	0.2935	9.7000e-004	0.1341	5.4000e-004	0.1347	0.0356	5.0000e-004	0.0361		101.7862	101.7862	2.0500e-003	2.3500e-003	102.5373

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3691	3.7163	24.1346	0.0599	7.0165	0.0486	7.0651	1.8716	0.0456	1.9171		6,288.8717	6,288.8717	0.3137	0.3030	6,387.0119
Unmitigated	2.3691	3.7163	24.1346	0.0599	7.0165	0.0486	7.0651	1.8716	0.0456	1.9171		6,288.8717	6,288.8717	0.3137	0.3030	6,387.0119

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	972.10	972.10	972.10	3,321,800	3,321,800
Total	972.10	972.10	972.10	3,321,800	3,321,800

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

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
NaturalGas Unmitigated	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

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	7439.85	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Total		0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	7.43985	0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781
Total		0.0802	0.6856	0.2918	4.3800e-003		0.0554	0.0554		0.0554	0.0554		875.2768	875.2768	0.0168	0.0161	880.4781

6.0 Area Detail

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	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247
Unmitigated	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	0.2376	0.0912	7.9128	4.2000e-004		0.0439	0.0439		0.0439	0.0439		14.2613	14.2613	0.0137		14.6028
Total	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2962					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.4245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1864	1.5925	0.6777	0.0102		0.1288	0.1288		0.1288	0.1288	0.0000	2,032.9412	2,032.9412	0.0390	0.0373	2,045.0219
Landscaping	0.2376	0.0912	7.9128	4.2000e-004		0.0439	0.0439		0.0439	0.0439		14.2613	14.2613	0.0137		14.6028
Total	4.1447	1.6836	8.5904	0.0106		0.1727	0.1727		0.1727	0.1727	0.0000	2,047.2025	2,047.2025	0.0526	0.0373	2,059.6247

7.0 Water Detail

7.1 Mitigation Measures Water

Menifee TTM 38128 Residential Lots - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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 38128 Project
Energy Calculations**

Land Use	Natural Gas Use		Electricity Use	
	(kBTU/yr)	(Therms)	(kWh/yr)	(MWh/yr)
City Park	0	0	0	0
Single Family Housing	2,715,550	27,156	764,607	765
Totals	2,715,550	27,156	764,607	765

1 kBTU = 0.01 therms

Energy Type	Project Annual Energy Consumption	Riverside County Annual Energy Consumption (2020)	Percentage Increase Countywide
Electricity (MWh)	765	16,857,931	0.0045%
Natural Gas (Therms)	27,156	436,941,555	0.0062%

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

**TTM38128 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	528	1,804,020	22	82,001
Light/Medium Trucks	0.40	385	1,316,423	17.3	76,094
Heavy Trucks/Other	0.06	59	201,534	6.4	31,490
TOTAL⁶	1.00	972	3,321,800	--	189,584
Notes:					
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.					
2. Daily Trips taken from ITE manual.					
3. Average fuel economy derived from the Department of Transportation.					
4. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).					
5. Values may be slightly off due to rounding.					
Source: Refer to CalEEMod outputs for assumptions used in this analysis.					

County On-Road
2026
710,266,011
0.0267%

**TTM 38128 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	43	45	14.7	28445		1142.22
Building Construction	500	60	14.7	441000	24.90284233	17708.82
Paving	23	23	14.7	7776		312.27
Architectural Coating	500	12	14.7	88200		3541.76
						22705.07
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	43	0	6.9	0		0.00
Building Construction	500	20	6.9	138	8.343886151	16.54
Paving	23	0	6.9	0		0.00
Architectural Coating	500	0	6.9	0		0.00
						16.54
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day) ¹	Total Fuel Consumption
Grading	43	1975	6	11850		1420.20
Building Construction	500	0	20	0		0.00
Paving	23	0	20	0	8.343886151	0.00
Architectural Coating	500	0	20	0		0.00
						1420.20
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						24,141.81

**TTM 38128 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	1	8	158	0.38	2.4016	8	43	826.15
Grading	Graders	1	8	187	0.41	3.0668	8	43	1054.98
Grading	Off-Highway Tractors	1	8	124	0.44	2.1824	8	43	750.75
Grading	Pavers	1	8	130	0.42	2.184	8	43	751.30
Grading	Paving Equipment	1	8	132	0.36	1.9008	8	43	653.88
Grading	Rollers	1	8	80	0.38	1.216	8	43	418.30
Grading	Rubber Tired Dozers	1	8	247	0.40	3.952	8	43	1359.49
Grading	Scrapers	4	8	367	0.48	7.0464	32	43	9695.85
Grading	Skid Steer Loaders	2	8	65	0.37	0.962	16	43	661.86
Grading	Surfacing Equipment	2	8	263	0.30	3.156	16	43	2171.33
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	43	987.69
Grading	Trenchers	1	8	78	0.5	1.56	8	43	536.64
Building Construction	Concrete/Industrial Saws	1	8	81	0.73	2.3652	8	500	9460.80
Building Construction	Excavators	1	8	158	0.38	2.4016	8	500	9606.40
Building Construction	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	500	11692.80
Building Construction	Scrapers	1	7	367	0.48	7.0464	7	500	24662.40
Building Construction	Skid Steer Loaders	1	8	65	0.37	0.962	8	500	3848.00
Building Construction	Tractors/Loaders/Backhoes	2	8	97	0.37	1.4356	16	500	11484.80
Paving	Graders	2	8	187	0.41	3.0668	16	23	1128.58
Paving	Pavers	1	8	130	0.42	2.184	8	23	401.86
Paving	Paving Equipment	1	8	132	0.36	1.9008	8	23	349.75
Paving	Rollers	2	8	80	0.38	1.216	16	23	447.49
Paving	Rubber Tired Loaders	1	8	203	0.36	2.9232	8	23	537.87
Paving	Surfacing Equipment	1	8	263	0.3	3.156	8	23	580.70
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	1.4356	8	23	264.15
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	500	4492.80

								Total:	98,827
Notes:								Off-Site Mobile Construction Total:	24,142
Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor								TOTAL:	122,968
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.									