

Appendix L

**Energy Conservation Analysis
RK Engineering Group, Inc.
March 27, 2023**

March 27, 2023

Mr. Paul Onufer
BEAUMONT LAND PARTNERS, LLC.
556 South Fair Oaks Avenue, Suite 337
Pasadena, CA 91105

**Subject: Xenia Multifamily Residential Project Energy Conservation Analysis,
City of Beaumont**

Dear Mr. Onufer:

1.0 Introduction

RK ENGINEERING GROUP, INC. (RK) is pleased to provide this energy conservation analysis for the proposed Xenia Multifamily Residential project (hereinafter referred to as “project”). The project site is located near the southeast corner of Xenia Avenue and Eighth Street, in the City of Beaumont, California.

The purpose of this analysis is to review the energy implications of the proposed project and provide recommendations to reduce wasteful, inefficient, and unnecessary consumption of energy during construction and operation. This analysis has been prepared within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000, et seq.).

CEQA Guidelines, Appendix F, Energy Conservation, describes the framework within which energy conservation should be analyzed. Conserving energy implies the wise and efficient use of energy through decreasing overall per capita energy consumption, decreasing reliance on fossil fuels (such as coal, natural gas, and oil), and increasing reliance on renewable energy sources.

2.0 Project Description

The project proposes to construct and operate 192 multifamily residential homes on an approximately 10.93-acre vacant site. The project location map is illustrated in Exhibit A, and the site plan used for this analysis, provided by SJA DESIGN GROUP, is illustrated in Exhibit B. Table 1 summarizes the proposed project land uses.

Table 1
Land Use Summary

Land Use	CalEEMod Land Use Category	Quantity	Metric
Multifamily Residential – Low Rise	Apartments Low-Rise	192	Dwelling Units
Swimming Pool	Recreational Swimming Pool	4,462.0	Square Feet
Paved Surfaces (On-site Parking and Drive Aisles)	Parking Lot	163,504.8	Square Feet

Construction of the project is estimated to begin in the year 2023 and last approximately 18 months. Construction activities are expected to consist of site preparation, grading, building construction, paving, and architectural coating.

The project site is currently vacant and is not expected to require any demolition. The project will require the import of approximately 65,000 cubic yards of earthwork material during the grading phase of construction. The project is expected to be operational in year 2024.

3.0 Utility Providers

The project will be served by the following utility providers, as shown in Table 2.

Table 2
Utility Providers

Utility	Provider
Electricity	Southern California Edison
Natural Gas	Southern California Gas Company

4.0 Summary of CEQA Impacts

Table 3 provides a summary of the project's impact on Energy resources, per the impact criteria described in CEQA Guidelines, Appendix G.

Table 3
CEQA Energy Impact Criteria

Energy Impact Criteria	Potentially Significant	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
<i>Would the project:</i>				
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			X	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			X	

5.0 Project Energy Consumption

The three (3) main types of energy expected to be consumed by the project include electricity, natural gas, and petroleum products in the form of gasoline and diesel fuel.

The California Emissions Estimator Model Version 2020.4.4 (CalEEMod) was used to calculate energy usage from project construction and operational activities. The daily and annual CalEEMod calculation sheets for the project are provided in Appendices A and B, respectively.

5.1 Electricity Consumption

The project will use electricity for many different operational activities including, but not limited to, building heating and cooling, lighting, appliances, electronics, mechanical equipment, parking lot lighting, and electric vehicle charging. Indirect electricity usage will also be required to supply, distribute, and treat water and wastewater. Electricity will be provided to the site by Southern California Edison.

Temporary electricity usage for construction activities may include lighting, electric equipment and mobile office uses, however, CalEEMod does not calculate electricity usage during construction. Electricity usage during construction is expected to be short-term and relatively minor compared to the operational demand, and therefore electricity usage during construction is not counted in this analysis.

Table 4 shows the project's estimated operational electricity consumption in kilowatt-hours per year (kWh/year) and millions of Btu per year (MBtu/yr).

Table 4
Project Electricity Usage

Land Use/Activity	Electricity Usage ¹	
	(kWhr/yr) ²	(MBtu/yr) ²
Apartments Low Rise	800,630.00	2,731.75
Parking Lot	57,226.70	195.26
Recreational Swimming Pool	--	--
Water Supply and Treatment	271,116.65	925.05
Electric Vehicle Charging	462,398.00	1,577.70
Total	1,591,371.35	5,429.76

¹ CalEEMod default estimates.

² kWhr/yr = kilowatt-hours per year
MBtu/yr = millions of Btu per year

5.2 Natural Gas Consumption

The project will use natural gas for such things as building heating and cooling and gas water heaters. Natural gas is not expected to be used during construction in any significant quantities and is not included in the overall calculation of the project's natural gas consumption.

Table 5 shows the project's estimated operational natural gas consumption in millions of Btu per year.

Table 5
Project Natural Gas Consumption

Land Use/Activity	Gas Usage (MBtu/yr)¹
Apartments Low Rise	2,904.17
Parking Lot	-
Recreational Swimming Pool	-
Total	2,904.17

1 MBtu/yr = millions of Btu per year

5.3 Petroleum Consumption

The project's energy consumption from petroleum products is primarily associated with transportation-related activities. This includes gasoline and diesel fuel usage for auto and truck trips during construction and operation and off-road equipment usage during construction.

The California Emission Factors 2017 model (EMFAC2017) is used to estimate petroleum energy consumption. The CalEEMod option to apply adjustments factors to account for the SAFE Vehicle Rule has been selected. No other adjustments have been made to the default emission factors.

Petroleum Consumption – Construction

Construction of the project is estimated to last approximately 18 months and consist of site preparation, grading, building construction, paving, and architectural coating phases. Construction activities will consume energy in the form of motor vehicle fuel (gasoline and diesel) for off-road construction equipment and on-road vehicle trips. Vehicle trips include workers, vendors, and haulers traveling to and from the job site.

Table 6 shows the project's energy consumption for all off-road equipment during construction. For purposes of this analysis, all off-road equipment is assumed to run on diesel fuel. Table 7 shows the project's energy consumption from on-road vehicle trips during construction.

Table 6
Construction Off-Road Equipment Energy Consumption

Phase ¹	Phase Duration (Days) ¹	Equipment ¹	Amount ¹	Hours/ Day ¹	Horspower (HP) ¹	Load Factor ¹	HP-hrs ²	Fuel Consumption Rate ³ (hp-hr/gal)	Diesel Fuel Consumption (gal.)	Diesel Fuel Consumption by Phase (gal.)	MBtu ⁴
Site Preparation	10	Rubber Tired Dozers	3	8	247	0.40	23,712.0	18.5	1,281.7	1,902.5	261.371
		Tractors/Loaders/Backhoes	4	8	97	0.37	11,484.8		620.8		
Grading	30	Excavator	2	8	158	0.38	28,819.2		1,557.8	8,739.2	1,200.602
		Graders	1	8	187	0.41	7,360.3		397.9		
		Rubber Tired Dozers	1	8	247	0.40	23,712.0		1,281.7		
		Scrapers	2	8	367	0.48	84,556.8		4,570.6		
		Tractors/Loaders/Backhoes	2	8	97	0.37	17,227.2		931.2		
Building Construction	300	Cranes	1	7	231	0.29	140,679.0		7,604.3	37,503.2	5,152.233
		Forklifts	3	8	89	0.20	128,160.0		6,927.6		
		Generator Sets	1	8	84	0.74	149,184.0		8,064.0		
		Tractors/Loaders/Backhoes	3	7	97	0.37	226,107.0		12,222.0		
		Welders	1	8	46	0.45	49,680.0		2,685.4		
Paving	20	Pavers	2	8	130	0.42	17,472.0		944.4	2,292.2	314.910
		Paving Equipment	2	8	132	0.36	15,206.4		822.0		
		Rollers	2	8	80	0.38	9,728.0		525.8		
Architectural Coating	20	Air Compressors	1	6	78	0.48	4,492.8		242.9	242.9	33.364
Total Energy Requirements									50,680.1	6,962.480	

¹ Source: CalEEMod Defaults (CalEEMod v.2020.4.0)

² HP-hrs = Horsepower Hours.

³ Source: Carl Moyer Program Guidelines. 2017 Revisions. Table D-21. <https://www.arb.ca.gov/msprog/moyer/guidelines/current.htm>

⁴ Mbtu = Millions of Btu; assuming 1 gallon of diesel fuel = 137,381 Btu.

**Table 7
Construction On-Road Trips Energy Consumption**

Construction Phase ¹	Phase Duration (Days) ¹	Trips /Day ¹	Trip Length ¹	Phase VMT	Vehicle Class ¹	Vehicle Mix ¹	Average Fuel Economy (MPG) ²	Gasoline		Diesel		Total MBtu ³		
								Fuel Split ²	Fuel Consumption by Veh. Class (gal.)	Fuel Consumption by Phase (gal.)	Fuel Split ²		Fuel Consumption by Veh. Class (gal.)	Fuel Consumption by Phase
Worker Trips														
Site Preparation	10	18	14.7	2,646	LDA	0.50	32.61	0.9936	40.31	89.02	0.0064	0.26	10.78	
					LDT1	0.25	27.78	0.9997	23.80		0.0003	0.01		0.41
					LDT2	0.25	26.41	0.9944	24.90		0.0056	0.14		
Grading	30	20	14.7	8,820	LDA	0.50	32.61	0.9936	134.37	296.73	0.0064	0.87	35.92	
					LDT1	0.25	27.78	0.9997	79.35		0.0003	0.03		1.36
					LDT2	0.25	26.41	0.9944	83.02		0.0056	0.47		
Building Construction	300	209	14.7	921,690	LDA	0.50	32.61	0.9936	14,041.51	31,008.61	0.0064	90.57	3,753.86	
					LDT1	0.25	27.78	0.9997	8,291.93		0.0003	2.75		142.15
					LDT2	0.25	26.41	0.9944	8,675.17		0.0056	48.83		
Paving	20	15	14.7	4,410	LDA	0.50	32.61	0.9936	67.18	148.37	0.0064	0.43	17.96	
					LDT1	0.25	27.78	0.9997	39.67		0.0003	0.01		0.68
					LDT2	0.25	26.41	0.9944	41.51		0.0056	0.23		
Architectural Coating	20	42	14.7	12,348	LDA	0.50	32.61	0.9936	188.12	415.43	0.0064	1.21	50.29	
					LDT1	0.25	27.78	0.9997	111.09		0.0003	0.04		1.90
					LDT2	0.25	26.41	0.9944	116.22		0.0056	0.65		
Sub-Total Worker Trips Energy Consumption								Gasoline (gal.)		31,958.16	Diesel (gal.)		146.50	3,868.82
Vendor Trips														
Building Construction	300	48	6.9	99,360	MHDT	0.50	9.73	0.2629	1,341.80	1,348.82	0.7371	3,762.38	10,620.11	1,621.44
					HHDT	0.50	7.24	0.0010	7.02		0.9990	6,857.73		
Hauling Trips														
Grading	30	8,125	20.0	4,875,000	HHDT	1.00	7.24	0.0010	689.18	689.18	0.9990	672,935.95	672,935.95	92,531.61
Total On-Road Construction Trips Energy Consumption								Gasoline (gal.)		33,996.16	Diesel (gal.)		683,702.56	98,021.87

¹ Source: CalEEMod Defaults (CalEEMod v.2020.4.0)

² Source: EMFAC2017 Web Database. <https://www.arb.ca.gov/emfac/2017/>. (See Appendix C for more details.)

³ Mbtu = Millions of Btu; assuming 1 gallon of gasoline fuel = 120,429 Btu and 1 gallon of diesel fuel = 137,381 Btu

Petroleum Consumption – Operation

The project is expected to consume energy from auto and truck trips generated by the proposed land uses. Operational vehicle trips are associated with workers, residents, and vendors/non-workers (i.e., delivery, service, maintenance vehicles, etc.) traveling to and from the site. EMFAC2017 vehicle fuel consumption data is provided in Appendix C.

Table 8 shows the project's petroleum energy consumption for all operational trips generated by the project on an annual basis.

Table 8
Operational Trips Energy Consumption - Annual

Vehicle Class	Vehicle Mix	Average Fuel Economy (MPG)	Annual VMT ¹	Gasoline		Diesel		MBtu
				Fuel Split	Fuel Consumption (gal.)	Fuel Split	Fuel Consumption (gal.)	
LDA	54.88%	32.61	4,781,982	0.9936	79,954.51	0.0064	515.70	9,699.69
LDT1	5.75%	27.78		0.9997	9,891.05	0.0003	3.29	1,191.62
LDT2	17.71%	26.41		0.9944	31,889.29	0.0056	179.48	3,865.05
MDV	14.47%	21.44		0.9804	31,630.32	0.0196	631.23	3,895.93
LHD1	2.73%	14.06		0.7108	6,595.12	0.2892	2,683.41	1,162.89
LHD2	0.33%	14.44		0.5241	566.15	0.4759	514.01	138.80
MHD	0.51%	9.73		0.2629	652.68	0.7371	1,830.10	330.02
HHH	0.83%	7.24		0.0010	5.64	0.9990	5,505.00	756.96
OBUS	0.03%	6.84		0.5457	104.86	0.4543	87.31	24.62
UBUS	0.01%	5.27		0.9878	125.86	0.0122	1.55	15.37
MCY	2.47%	36.21		1.0000	3,259.27	0.0000	0.00	392.51
SBUS	0.05%	8.26		0.3158	89.74	0.6842	194.41	37.52
MH	0.24%	6.17		0.8411	1,590.47	0.1589	300.36	232.80
Total Operational Trips Energy Usage				Gasoline Consumption (gal.)	166,354.96	Diesel Consumption (gal.)	12,445.85	21,743.78

¹ CalEEMod Defaults.

6.0 Summary of Project Energy Consumption

Table 9 provides a summary of the project's annual operational energy consumption.

Table 9
Total Operational Energy Consumption (MBtu/yr)¹

Activity	Annual Energy Consumption
Electricity	5,429.76
Natural Gas	2,904.17
Petroleum	21,743.78
Total Annual Energy Consumption	30,077.71

7.0 Energy Impact Analysis

This qualitative analysis has been prepared within the context of the CEQA Guidelines, Appendix F, Energy Conservation, and Appendix G, Environmental Checklist Form. According to CEQA, the goal of conserving energy implies the wise and efficient use of energy through decreasing overall per capita energy consumption, decreasing reliance on fossil fuels (such as coal, natural gas, and oil), and increasing reliance on renewable energy sources.

A significant environmental impact would result if the project would;

- a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation, or;
- b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

7.1 Energy Impact - A

Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

The project will implement the mandatory requirements of California's Building Efficiency Standards (Title 24, Part 6) to reduce energy consumption. California's building standards are some of the strictest in the nation and the project's compliance with the Building Code will ensure that wasteful, inefficient, or unnecessary consumption of energy is minimized. The California Building Code is designed to reduce the amount of energy needed to heat or cool a building, reduce energy usage for lighting and appliances and promote usage of energy from renewable sources.

In particular, the project will provide solar installations to satisfy the prescribed Energy Design Ratings from the Energy Code. Thus, the project will significantly reduce its reliance on fossil fuels for building energy.

Recent court rulings indicate that when determining if a project would have a potentially significant impact to energy conservation, the analysis should consider whether any renewable energy features could be incorporated into the project¹. By including on-site renewable energy sources as part of the project's design, the proposed project is compatible with recent court rulings regarding the use of renewable energy sources and ensures that wasteful, inefficient, or unnecessary consumption of energy is minimized.

Therefore, the project impact is considered less than significant.

7.2 Energy Impact - B

Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The project is not expected to conflict with or obstruct a state or local plan for renewable energy or energy efficiency. The project will purchase electricity through Southern California Edison which is subject to the requirements of California Senate Bill 100 (SB 100).

¹ *League to Save Lake Tahoe Mountain Area Preservation Foundation, et al. v. County of Placer, et al.*

SB 100 is the most stringent and current energy legislation in California; requiring that renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all state agencies by December 31, 2045.²

The project will also comply with the mandatory requirements of California's Green Building and Building Energy Efficiency standards that promote renewable energy and energy efficiency. In addition, the project will include solar panels for each building. The final location and orientation of the solar panels will be identified at Site Plan Review.

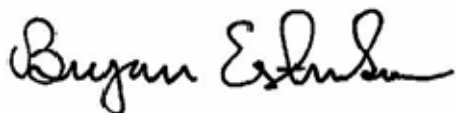
Hence, the project will not conflict with or obstruct a state or local plan for renewable energy or energy efficiency and **the impact is considered less than significant.**

8.0 Conclusion

RK ENGINEERING GROUP, INC. has completed this energy conservation analysis for the proposed Xenia Multifamily Residential project. Based upon this review, the proposed project's impact to energy resources is considered less than significant.

If you have any questions regarding this study, or would like further review, please do not hesitate to contact us at (949) 474-0809 or be@rkengineer.com.

Sincerely,
RK ENGINEERING GROUP, INC.



Bryan Estrada, AICP, PTP
Principal



Becca Morrison
Environmental Specialist

Attachments:

² SB-100 California Renewables Portfolio Standard Program.
http://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201720180SB100

Exhibits





Appendices

Appendix A

Unmitigated Daily Emissions Calculations Output
(CalEEMod)

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

Xenia and Eight Street Multifamily Residential Project

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	163.50	1000sqft	3.75	163,504.80	0
Apartments Low Rise	192.00	Dwelling Unit	7.18	192,000.00	549
Recreational Swimming Pool	4.46	1000sqft	0.10	4,462.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2024
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 project is proposing to build 192 multifamily apartment homes and a swimming pool, and pave approximately 163,504.8 Square Feet as a part of on-site street improvement and parking lot.

Construction Phase - The site is currently vacant and requires no demolition.

Grading - The project is expected to import approximately 65,000 cubic yard of earthwork materials

Woodstoves - Per SCAQMD Rule 445, no wood-burning devices will be allowed. Project will not include natural gas hearths.

Construction Off-road Equipment Mitigation - Project will be required to comply with SCAQMD Rule 403 regarding fugitive dust control. Construction equipment will have Tier 4 "clean diesel" engines.

Fleet Mix - Operational fleet mix adjusted to equal 2% trucks with GVWR > 10,000 lbs.

Vehicle Trips - The project swimming pool is not expected to generate any additional trips.

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

[illegible]

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

tblFireplaces	NumberGas	163.20	0.00
tblFireplaces	NumberNoFireplace	19.20	192.00
tblFireplaces	NumberWood	9.60	0.00
tblFleetMix	HHD	0.02	8.3400e-003
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.1910e-003	3.2610e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.14
tblFleetMix	MH	5.1890e-003	2.4390e-003
tblFleetMix	MHD	0.01	5.0530e-003
tblFleetMix	OBUS	6.1100e-004	2.7500e-004
tblFleetMix	SBUS	1.0970e-003	4.9100e-004
tblFleetMix	UBUS	3.0900e-004	1.4100e-004
tblGrading	MaterialImported	0.00	65,000.00
tblLandUse	LandUseSquareFeet	163,505.00	163,504.80
tblLandUse	LandUseSquareFeet	4,460.00	4,462.00
tblLandUse	LotAcreage	12.00	7.18
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	9.60	0.00
tblWoodstoves	NumberNoncatalytic	9.60	0.00

2.0 Emissions Summary

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.9875	61.6072	36.2223	0.2129	19.8582	1.7520	21.1252	10.1558	1.6238	11.3214	0.0000	22,105.10 14	22,105.10 14	2.1742	2.5089	22,907.11 59
2024	2.2367	15.4326	23.9845	0.0551	2.6436	0.6374	3.2809	0.7081	0.5995	1.3076	0.0000	5,483.517 9	5,483.517 9	0.7171	0.1747	5,552.022 5
2025	62.6477	8.6087	15.0582	0.0242	0.4695	0.4192	0.5869	0.1245	0.3857	0.4302	0.0000	2,350.425 4	2,350.425 4	0.7165	8.5400e- 003	2,369.247 6
Maximum	62.6477	61.6072	36.2223	0.2129	19.8582	1.7520	21.1252	10.1558	1.6238	11.3214	0.0000	22,105.10 14	22,105.10 14	2.1742	2.5089	22,907.11 59

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.4273	30.3917	41.1703	0.2129	8.5890	0.4290	9.0180	3.9176	0.4148	3.9805	0.0000	22,105.10 14	22,105.10 14	2.1742	2.5089	22,907.11 59
2024	1.0930	4.2235	25.2779	0.0551	2.6436	0.0648	2.7084	0.7081	0.0634	0.7715	0.0000	5,483.517 9	5,483.517 9	0.7171	0.1747	5,552.022 5
2025	62.5065	1.2424	17.7759	0.0242	0.4695	0.0381	0.4754	0.1245	0.0381	0.1303	0.0000	2,350.425 4	2,350.425 4	0.7165	8.5400e- 003	2,369.247 6
Maximum	62.5065	30.3917	41.1703	0.2129	8.5890	0.4290	9.0180	3.9176	0.4148	3.9805	0.0000	22,105.10 14	22,105.10 14	2.1742	2.5089	22,907.11 59

Xenia and Eight Street Multifamily Residential Project - 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	5.58	58.13	-11.90	0.00	49.06	81.06	51.18	56.77	80.21	62.61	0.00	0.00	0.00	0.00	0.00	0.00

Xenia and Eight Street Multifamily Residential Project - 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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Energy	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Mobile	4.9420	4.9521	48.4997	0.1048	11.2162	0.0692	11.2854	2.9833	0.0646	3.0479		10,830.5682	10,830.5682	0.5263	0.4084	10,965.4163
Total	9.7066	5.8679	64.6625	0.1104	11.2162	0.2163	11.4325	2.9833	0.2117	3.1950	0.0000	11,795.2027	11,795.2027	0.5717	0.4255	11,936.3000

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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Energy	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Mobile	4.9420	4.9521	48.4997	0.1048	11.2162	0.0692	11.2854	2.9833	0.0646	3.0479		10,830.5682	10,830.5682	0.5263	0.4084	10,965.4163
Total	9.7066	5.8679	64.6625	0.1104	11.2162	0.2163	11.4325	2.9833	0.2117	3.1950	0.0000	11,795.2027	11,795.2027	0.5717	0.4255	11,936.3000

Xenia and Eight Street Multifamily Residential Project - 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	Site Preparation	Site Preparation	9/1/2023	9/14/2023	5	10	
2	Grading	Grading	9/15/2023	10/26/2023	5	30	
3	Building Construction	Building Construction	10/27/2023	12/19/2024	5	300	
4	Paving	Paving	12/20/2024	1/16/2025	5	20	
5	Architectural Coating	Architectural Coating	1/17/2025	2/13/2025	5	20	

Acres of Grading (Site Preparation Phase): 15**Acres of Grading (Grading Phase): 90****Acres of Paving: 3.75****Residential Indoor: 388,800; Residential Outdoor: 129,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,810 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	8,125.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	209.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Xenia and Eight Street Multifamily Residential Project - 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 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

Xenia and Eight Street Multifamily Residential Project - 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 Site Preparation - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5188	0.0000	7.5188	3.8642	0.0000	3.8642			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	0.4656	2.0175	20.8690	0.0381	7.5188	0.0621	7.5809	3.8642	0.0621	3.9263	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

Xenia and Eight Street Multifamily Residential Project - 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 Grading - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4780	0.0000	9.4780	3.6953	0.0000	3.6953			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	3.3217	34.5156	28.0512	0.0621	9.4780	1.4245	10.9025	3.6953	1.3105	5.0058		6,011.477 7	6,011.477 7	1.9442		6,060.083 6

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	0.5927	27.0465	7.4374	0.1488	4.7401	0.3264	5.0665	1.2995	0.3123	1.6118		15,892.38 31	15,892.38 31	0.2254	2.5042	16,644.27 87
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	0.0731	0.0452	0.7337	1.9700e-003	0.2236	1.0500e-003	0.2246	0.0593	9.7000e-004	0.0603		201.2406	201.2406	4.5900e-003	4.6900e-003	202.7537
Total	0.6658	27.0916	8.1711	0.1508	4.9636	0.3275	5.2911	1.3588	0.3133	1.6721		16,093.62 37	16,093.62 37	0.2300	2.5089	16,847.03 24

Xenia and Eight Street Multifamily Residential Project - 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 Grading - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6253	0.0000	3.6253	1.4135	0.0000	1.4135			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	0.7616	3.3000	32.9991	0.0621	3.6253	0.1015	3.7269	1.4135	0.1015	1.5150	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6

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	0.5927	27.0465	7.4374	0.1488	4.7401	0.3264	5.0665	1.2995	0.3123	1.6118		15,892.38 31	15,892.38 31	0.2254	2.5042	16,644.27 87
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	0.0731	0.0452	0.7337	1.9700e- 003	0.2236	1.0500e- 003	0.2246	0.0593	9.7000e- 004	0.0603		201.2406	201.2406	4.5900e- 003	4.6900e- 003	202.7537
Total	0.6658	27.0916	8.1711	0.1508	4.9636	0.3275	5.2911	1.3588	0.3133	1.6721		16,093.62 37	16,093.62 37	0.2300	2.5089	16,847.03 24

Xenia and Eight Street Multifamily Residential Project - 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 - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0541	1.5682	0.6457	8.3900e-003	0.3074	0.0137	0.3211	0.0885	0.0131	0.1016		889.3008	889.3008	9.0700e-003	0.1314	928.6883
Worker	0.7636	0.4718	7.6673	0.0206	2.3361	0.0110	2.3471	0.6196	0.0101	0.6296		2,102.9643	2,102.9643	0.0480	0.0490	2,118.7760
Total	0.8177	2.0400	8.3130	0.0289	2.6436	0.0246	2.6682	0.7081	0.0232	0.7312		2,992.2651	2,992.2651	0.0571	0.1804	3,047.4643

Xenia and Eight Street Multifamily Residential Project - 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 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0541	1.5682	0.6457	8.3900e-003	0.3074	0.0137	0.3211	0.0885	0.0131	0.1016		889.3008	889.3008	9.0700e-003	0.1314	928.6883
Worker	0.7636	0.4718	7.6673	0.0206	2.3361	0.0110	2.3471	0.6196	0.0101	0.6296		2,102.9643	2,102.9643	0.0480	0.0490	2,118.7760
Total	0.8177	2.0400	8.3130	0.0289	2.6436	0.0246	2.6682	0.7081	0.0232	0.7312		2,992.2651	2,992.2651	0.0571	0.1804	3,047.4643

Xenia and Eight Street Multifamily Residential Project - 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 On-Site**

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0533	1.5683	0.6383	8.2500e-003	0.3074	0.0136	0.3210	0.0885	0.0130	0.1015		875.5948	875.5948	9.3900e-003	0.1292	914.3286
Worker	0.7119	0.4205	7.1794	0.0199	2.3361	0.0105	2.3466	0.6196	9.6400e-003	0.6292		2,052.2242	2,052.2242	0.0435	0.0456	2,066.8862
Total	0.7651	1.9888	7.8177	0.0281	2.6436	0.0240	2.6676	0.7081	0.0226	0.7307		2,927.8190	2,927.8190	0.0529	0.1747	2,981.2148

Xenia and Eight Street Multifamily Residential Project - 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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0533	1.5683	0.6383	8.2500e-003	0.3074	0.0136	0.3210	0.0885	0.0130	0.1015		875.5948	875.5948	9.3900e-003	0.1292	914.3286
Worker	0.7119	0.4205	7.1794	0.0199	2.3361	0.0105	2.3466	0.6196	9.6400e-003	0.6292		2,052.2242	2,052.2242	0.0435	0.0456	2,066.8862
Total	0.7651	1.9888	7.8177	0.0281	2.6436	0.0240	2.6676	0.7081	0.0226	0.7307		2,927.8190	2,927.8190	0.0529	0.1747	2,981.2148

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4794	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0511	0.0302	0.5153	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		147.2888	147.2888	3.1200e-003	3.2700e-003	148.3411
Total	0.0511	0.0302	0.5153	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		147.2888	147.2888	3.1200e-003	3.2700e-003	148.3411

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7717	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0511	0.0302	0.5153	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		147.2888	147.2888	3.1200e-003	3.2700e-003	148.3411
Total	0.0511	0.0302	0.5153	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		147.2888	147.2888	3.1200e-003	3.2700e-003	148.3411

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4064	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0478	0.0271	0.4802	1.3800e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		143.6803	143.6803	2.8100e-003	3.0500e-003	144.6598
Total	0.0478	0.0271	0.4802	1.3800e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		143.6803	143.6803	2.8100e-003	3.0500e-003	144.6598

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2025****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7717	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0478	0.0271	0.4802	1.3800e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		143.6803	143.6803	2.8100e-003	3.0500e-003	144.6598
Total	0.0478	0.0271	0.4802	1.3800e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		143.6803	143.6803	2.8100e-003	3.0500e-003	144.6598

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3431					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	62.5139	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1337	0.0758	1.3445	3.8600e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		402.3048	402.3048	7.8800e-003	8.5400e-003	405.0474
Total	0.1337	0.0758	1.3445	3.8600e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		402.3048	402.3048	7.8800e-003	8.5400e-003	405.0474

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3431					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	62.3728	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1337	0.0758	1.3445	3.8600e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		402.3048	402.3048	7.8800e-003	8.5400e-003	405.0474
Total	0.1337	0.0758	1.3445	3.8600e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		402.3048	402.3048	7.8800e-003	8.5400e-003	405.0474

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.9420	4.9521	48.4997	0.1048	11.2162	0.0692	11.2854	2.9833	0.0646	3.0479		10,830.5682	10,830.5682	0.5263	0.4084	10,965.4163
Unmitigated	4.9420	4.9521	48.4997	0.1048	11.2162	0.0692	11.2854	2.9833	0.0646	3.0479		10,830.5682	10,830.5682	0.5263	0.4084	10,965.4163

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,405.44	1,562.88	1,205.76	4,781,982	4,781,982
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,405.44	1,562.88	1,205.76	4,781,982	4,781,982

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.548752	0.057478	0.177127	0.144672	0.027288	0.003261	0.005053	0.008340	0.000275	0.000141	0.024682	0.000491	0.002439
Parking Lot	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Recreational Swimming Pool	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
NaturalGas Unmitigated	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

Xenia and Eight Street Multifamily Residential Project - 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****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7956.64	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

Xenia and Eight Street Multifamily Residential Project - 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					
Apartments Low Rise	7.95664	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

6.0 Area Detail**6.1 Mitigation Measures Area**

Xenia and Eight Street Multifamily Residential Project - 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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Unmitigated	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

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	0.3416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4777	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878		28.5588	28.5588	0.0275		29.2454
Total	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

Xenia and Eight Street Multifamily Residential Project - 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	0.3416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4777	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878		28.5588	28.5588	0.0275		29.2454
Total	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

7.0 Water Detail**7.1 Mitigation Measures Water**

Xenia and Eight Street Multifamily Residential Project - 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**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

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

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

Xenia and Eight Street Multifamily Residential Project

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	163.50	1000sqft	3.75	163,504.80	0
Apartments Low Rise	192.00	Dwelling Unit	7.18	192,000.00	549
Recreational Swimming Pool	4.46	1000sqft	0.10	4,462.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project is proposing to build 192 multifamily apartment homes and a swimming pool, and pave approximately 163,504.8 Square Feet as a part of on-site street improvement and parking lot.

Construction Phase - The site is currently vacant and requires no demolition.

Grading - The project is expected to import approximately 65,000 cubic yard of earthwork materials

Woodstoves - Per SCAQMD Rule 445, no wood-burning devices will be allowed. Project will not include natural gas hearths.

Construction Off-road Equipment Mitigation - Project will be required to comply with SCAQMD Rule 403 regarding fugitive dust control. Construction equipment will have Tier 4 "clean diesel" engines.

Fleet Mix - Operational fleet mix adjusted to equal 2% trucks with GVWR > 10,000 lbs.

Vehicle Trips - The project swimming pool is not expected to generate any additional trips.

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

[illegible]

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

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

tblFireplaces	NumberGas	163.20	0.00
tblFireplaces	NumberNoFireplace	19.20	192.00
tblFireplaces	NumberWood	9.60	0.00
tblFleetMix	HHD	0.02	8.3400e-003
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.1910e-003	3.2610e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.14
tblFleetMix	MH	5.1890e-003	2.4390e-003
tblFleetMix	MHD	0.01	5.0530e-003
tblFleetMix	OBUS	6.1100e-004	2.7500e-004
tblFleetMix	SBUS	1.0970e-003	4.9100e-004
tblFleetMix	UBUS	3.0900e-004	1.4100e-004
tblGrading	MaterialImported	0.00	65,000.00
tblLandUse	LandUseSquareFeet	163,505.00	163,504.80
tblLandUse	LandUseSquareFeet	4,460.00	4,462.00
tblLandUse	LotAcreage	12.00	7.18
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	9.60	0.00
tblWoodstoves	NumberNoncatalytic	9.60	0.00

2.0 Emissions Summary

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.9350	63.2205	36.2410	0.2129	19.8582	1.7524	21.1252	10.1558	1.6242	11.3214	0.0000	22,111.05 71	22,111.05 71	2.1719	2.5130	22,914.21 77
2024	2.1901	15.5432	22.6593	0.0533	2.6436	0.6374	3.2810	0.7081	0.5996	1.3076	0.0000	5,293.328 0	5,293.328 0	0.7171	0.1762	5,362.268 5
2025	62.6400	8.6097	14.9686	0.0241	0.4695	0.4192	0.5869	0.1245	0.3857	0.4302	0.0000	2,336.990 5	2,336.990 5	0.7165	8.7400e- 003	2,355.833 7
Maximum	62.6400	63.2205	36.2410	0.2129	19.8582	1.7524	21.1252	10.1558	1.6242	11.3214	0.0000	22,111.05 71	22,111.05 71	2.1719	2.5130	22,914.21 77

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.3748	32.0050	41.1890	0.2129	8.5890	0.4295	9.0184	3.9176	0.4153	3.9805	0.0000	22,111.05 71	22,111.05 71	2.1719	2.5130	22,914.21 77
2024	1.0464	4.3341	23.9528	0.0533	2.6436	0.0649	2.7084	0.7081	0.0635	0.7715	0.0000	5,293.328 0	5,293.328 0	0.7171	0.1762	5,362.268 5
2025	62.4989	1.2434	17.6863	0.0241	0.4695	0.0381	0.4754	0.1245	0.0381	0.1303	0.0000	2,336.990 5	2,336.990 5	0.7165	8.7400e- 003	2,355.833 7
Maximum	62.4989	32.0050	41.1890	0.2129	8.5890	0.4295	9.0184	3.9176	0.4153	3.9805	0.0000	22,111.05 71	22,111.05 71	2.1719	2.5130	22,914.21 77

Xenia and Eight Street Multifamily Residential Project - 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	5.59	56.99	-12.13	0.00	49.06	81.04	51.18	56.77	80.20	62.61	0.00	0.00	0.00	0.00	0.00	0.00

Xenia and Eight Street Multifamily Residential Project - 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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Energy	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Mobile	4.2187	5.2558	42.7439	0.0967	11.2162	0.0693	11.2855	2.9833	0.0646	3.0479		9,988.6031	9,988.6031	0.5386	0.4190	10,126.9373
Total	8.9833	6.1716	58.9067	0.1022	11.2162	0.2164	11.4326	2.9833	0.2117	3.1950	0.0000	10,953.2375	10,953.2375	0.5840	0.4362	11,097.8209

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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Energy	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Mobile	4.2187	5.2558	42.7439	0.0967	11.2162	0.0693	11.2855	2.9833	0.0646	3.0479		9,988.6031	9,988.6031	0.5386	0.4190	10,126.9373
Total	8.9833	6.1716	58.9067	0.1022	11.2162	0.2164	11.4326	2.9833	0.2117	3.1950	0.0000	10,953.2375	10,953.2375	0.5840	0.4362	11,097.8209

Xenia and Eight Street Multifamily Residential Project - 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	Site Preparation	Site Preparation	9/1/2023	9/14/2023	5	10	
2	Grading	Grading	9/15/2023	10/26/2023	5	30	
3	Building Construction	Building Construction	10/27/2023	12/19/2024	5	300	
4	Paving	Paving	12/20/2024	1/16/2025	5	20	
5	Architectural Coating	Architectural Coating	1/17/2025	2/13/2025	5	20	

Acres of Grading (Site Preparation Phase): 15**Acres of Grading (Grading Phase): 90****Acres of Paving: 3.75****Residential Indoor: 388,800; Residential Outdoor: 129,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,810 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

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

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	8,125.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	209.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Xenia and Eight Street Multifamily Residential Project - 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 Site Preparation - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

Xenia and Eight Street Multifamily Residential Project - 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 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5188	0.0000	7.5188	3.8642	0.0000	3.8642			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	0.4656	2.0175	20.8690	0.0381	7.5188	0.0621	7.5809	3.8642	0.0621	3.9263	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

Xenia and Eight Street Multifamily Residential Project - 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 Grading - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4780	0.0000	9.4780	3.6953	0.0000	3.6953			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	3.3217	34.5156	28.0512	0.0621	9.4780	1.4245	10.9025	3.6953	1.3105	5.0058		6,011.477 7	6,011.477 7	1.9442		6,060.083 6

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	0.5448	28.6581	7.5940	0.1491	4.7401	0.3269	5.0670	1.2995	0.3128	1.6123		15,917.23 73	15,917.23 73	0.2231	2.5082	16,670.24 66
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	0.0685	0.0469	0.5958	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.7000e-004	0.0603		182.3421	182.3421	4.5800e-003	4.8000e-003	183.8876
Total	0.6133	28.7049	8.1898	0.1508	4.9636	0.3279	5.2916	1.3588	0.3137	1.6725		16,099.57 93	16,099.57 93	0.2277	2.5130	16,854.13 41

Xenia and Eight Street Multifamily Residential Project - 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 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6253	0.0000	3.6253	1.4135	0.0000	1.4135			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.1015	0.1015		0.1015	0.1015	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6
Total	0.7616	3.3000	32.9991	0.0621	3.6253	0.1015	3.7269	1.4135	0.1015	1.5150	0.0000	6,011.477 7	6,011.477 7	1.9442		6,060.083 6

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	0.5448	28.6581	7.5940	0.1491	4.7401	0.3269	5.0670	1.2995	0.3128	1.6123		15,917.23 73	15,917.23 73	0.2231	2.5082	16,670.24 66
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	0.0685	0.0469	0.5958	1.7800e-003	0.2236	1.0500e-003	0.2246	0.0593	9.7000e-004	0.0603		182.3421	182.3421	4.5800e-003	4.8000e-003	183.8876
Total	0.6133	28.7049	8.1898	0.1508	4.9636	0.3279	5.2916	1.3588	0.3137	1.6725		16,099.57 93	16,099.57 93	0.2277	2.5130	16,854.13 41

Xenia and Eight Street Multifamily Residential Project - 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 - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0501	1.6631	0.6674	8.4100e-003	0.3074	0.0137	0.3212	0.0885	0.0131	0.1016		891.5078	891.5078	8.8900e-003	0.1319	931.0213
Worker	0.7157	0.4896	6.2260	0.0186	2.3361	0.0110	2.3471	0.6196	0.0101	0.6296		1,905.4746	1,905.4746	0.0479	0.0502	1,921.6249
Total	0.7658	2.1527	6.8935	0.0270	2.6436	0.0247	2.6682	0.7081	0.0232	0.7313		2,796.9824	2,796.9824	0.0568	0.1820	2,852.6462

Xenia and Eight Street Multifamily Residential Project - 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 - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0501	1.6631	0.6674	8.4100e-003	0.3074	0.0137	0.3212	0.0885	0.0131	0.1016		891.5078	891.5078	8.8900e-003	0.1319	931.0213
Worker	0.7157	0.4896	6.2260	0.0186	2.3361	0.0110	2.3471	0.6196	0.0101	0.6296		1,905.474 6	1,905.474 6	0.0479	0.0502	1,921.624 9
Total	0.7658	2.1527	6.8935	0.0270	2.6436	0.0247	2.6682	0.7081	0.0232	0.7313		2,796.982 4	2,796.982 4	0.0568	0.1820	2,852.646 2

Xenia and Eight Street Multifamily Residential Project - 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 On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0493	1.6633	0.6600	8.2800e-003	0.3074	0.0136	0.3211	0.0885	0.0130	0.1015		877.7830	877.7830	9.2100e-003	0.1296	916.6397
Worker	0.6693	0.4361	5.8325	0.0180	2.3361	0.0105	2.3466	0.6196	9.6400e-003	0.6292		1,859.8461	1,859.8461	0.0434	0.0466	1,874.8212
Total	0.7185	2.0994	6.4925	0.0263	2.6436	0.0241	2.6677	0.7081	0.0227	0.7307		2,737.6291	2,737.6291	0.0526	0.1762	2,791.4609

Xenia and Eight Street Multifamily Residential Project - 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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.3278	2.2347	17.4603	0.0270		0.0408	0.0408		0.0408	0.0408	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0493	1.6633	0.6600	8.2800e-003	0.3074	0.0136	0.3211	0.0885	0.0130	0.1015		877.7830	877.7830	9.2100e-003	0.1296	916.6397
Worker	0.6693	0.4361	5.8325	0.0180	2.3361	0.0105	2.3466	0.6196	9.6400e-003	0.6292		1,859.8461	1,859.8461	0.0434	0.0466	1,874.8212
Total	0.7185	2.0994	6.4925	0.0263	2.6436	0.0241	2.6677	0.7081	0.0227	0.7307		2,737.6291	2,737.6291	0.0526	0.1762	2,791.4609

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2024****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4794	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0313	0.4186	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		133.4818	133.4818	3.1200e-003	3.3500e-003	134.5565
Total	0.0480	0.0313	0.4186	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		133.4818	133.4818	3.1200e-003	3.3500e-003	134.5565

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7717	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0313	0.4186	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		133.4818	133.4818	3.1200e-003	3.3500e-003	134.5565
Total	0.0480	0.0313	0.4186	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		133.4818	133.4818	3.1200e-003	3.3500e-003	134.5565

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4064	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0450	0.0281	0.3906	1.2500e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		130.2454	130.2454	2.8200e-003	3.1200e-003	131.2459
Total	0.0450	0.0281	0.3906	1.2500e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		130.2454	130.2454	2.8200e-003	3.1200e-003	131.2459

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.4913					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7717	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0450	0.0281	0.3906	1.2500e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		130.2454	130.2454	2.8200e-003	3.1200e-003	131.2459
Total	0.0450	0.0281	0.3906	1.2500e-003	0.1677	7.1000e-004	0.1684	0.0445	6.6000e-004	0.0451		130.2454	130.2454	2.8200e-003	3.1200e-003	131.2459

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3431					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	62.5139	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1261	0.0786	1.0937	3.5000e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		364.6871	364.6871	7.8900e-003	8.7400e-003	367.4885
Total	0.1261	0.0786	1.0937	3.5000e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		364.6871	364.6871	7.8900e-003	8.7400e-003	367.4885

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	62.3431					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	62.3728	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1261	0.0786	1.0937	3.5000e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		364.6871	364.6871	7.8900e-003	8.7400e-003	367.4885
Total	0.1261	0.0786	1.0937	3.5000e-003	0.4695	2.0000e-003	0.4715	0.1245	1.8400e-003	0.1264		364.6871	364.6871	7.8900e-003	8.7400e-003	367.4885

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	4.2187	5.2558	42.7439	0.0967	11.2162	0.0693	11.2855	2.9833	0.0646	3.0479		9,988,603 1	9,988,603 1	0.5386	0.4190	10,126.93 73
Unmitigated	4.2187	5.2558	42.7439	0.0967	11.2162	0.0693	11.2855	2.9833	0.0646	3.0479		9,988,603 1	9,988,603 1	0.5386	0.4190	10,126.93 73

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,405.44	1,562.88	1205.76	4,781,982	4,781,982
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,405.44	1,562.88	1,205.76	4,781,982	4,781,982

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.548752	0.057478	0.177127	0.144672	0.027288	0.003261	0.005053	0.008340	0.000275	0.000141	0.024682	0.000491	0.002439
Parking Lot	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Recreational Swimming Pool	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
NaturalGas Unmitigated	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

Xenia and Eight Street Multifamily Residential Project - 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****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	7956.64	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

Xenia and Eight Street Multifamily Residential Project - 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					
Apartments Low Rise	7.95664	0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0858	0.7333	0.3120	4.6800e-003		0.0593	0.0593		0.0593	0.0593		936.0757	936.0757	0.0179	0.0172	941.6383

6.0 Area Detail

6.1 Mitigation Measures Area

Xenia and Eight Street Multifamily Residential Project - 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	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454
Unmitigated	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

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	0.3416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4777	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878		28.5588	28.5588	0.0275		29.2454
Total	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

Xenia and Eight Street Multifamily Residential Project - 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	0.3416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8595					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4777	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878		28.5588	28.5588	0.0275		29.2454
Total	4.6788	0.1826	15.8507	8.4000e-004		0.0878	0.0878		0.0878	0.0878	0.0000	28.5588	28.5588	0.0275	0.0000	29.2454

7.0 Water Detail

7.1 Mitigation Measures Water

Xenia and Eight Street Multifamily Residential Project - 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

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

Appendix B

Unmitigated Annual Emissions Calculations Output
(CalEEMod)

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

Xenia and Eight Street Multifamily Residential Project

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	163.50	1000sqft	3.75	163,504.80	0
Apartments Low Rise	192.00	Dwelling Unit	7.18	192,000.00	549
Recreational Swimming Pool	4.46	1000sqft	0.10	4,462.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2024
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 project is proposing to build 192 multifamily apartment homes and a swimming pool, and pave approximately 163,504.8 Square Feet as a part of on-site street improvement and parking lot.

Construction Phase - The site is currently vacant and requires no demolition.

Grading - The project is expected to import approximately 65,000 cubic yard of earthwork materials

Woodstoves - Per SCAQMD Rule 445, no wood-burning devices will be allowed. Project will not include natural gas hearths.

Construction Off-road Equipment Mitigation - Project will be required to comply with SCAQMD Rule 403 regarding fugitive dust control. Construction equipment will have Tier 4 "clean diesel" engines.

Fleet Mix - Operational fleet mix adjusted to equal 2% trucks with GVWR > 10,000 lbs.

Vehicle Trips - The project swimming pool is not expected to generate any additional trips.

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

[illegible]

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

tblFireplaces	NumberGas	163.20	0.00
tblFireplaces	NumberNoFireplace	19.20	192.00
tblFireplaces	NumberWood	9.60	0.00
tblFleetMix	HHD	0.02	8.3400e-003
tblFleetMix	LDA	0.54	0.55
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT2	0.17	0.18
tblFleetMix	LHD1	0.03	0.03
tblFleetMix	LHD2	7.1910e-003	3.2610e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.14	0.14
tblFleetMix	MH	5.1890e-003	2.4390e-003
tblFleetMix	MHD	0.01	5.0530e-003
tblFleetMix	OBUS	6.1100e-004	2.7500e-004
tblFleetMix	SBUS	1.0970e-003	4.9100e-004
tblFleetMix	UBUS	3.0900e-004	1.4100e-004
tblGrading	MaterialImported	0.00	65,000.00
tblLandUse	LandUseSquareFeet	163,505.00	163,504.80
tblLandUse	LandUseSquareFeet	4,460.00	4,462.00
tblLandUse	LotAcreage	12.00	7.18
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	9.60	0.00
tblWoodstoves	NumberNoncatalytic	9.60	0.00

2.0 Emissions Summary

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1260	1.4646	1.1764	4.6400e-003	0.3746	0.0493	0.4239	0.1424	0.0459	0.1882	0.0000	430.8039	430.8039	0.0489	0.0380	443.3497
2024	0.2799	2.0115	2.9764	6.9100e-003	0.3309	0.0828	0.4137	0.0888	0.0779	0.1666	0.0000	623.1995	623.1995	0.0783	0.0204	631.2347
2025	0.6350	0.0639	0.1196	2.1000e-004	5.6100e-003	3.0500e-003	8.6600e-003	1.4900e-003	2.8500e-003	4.3400e-003	0.0000	18.6752	18.6752	4.1100e-003	1.0000e-004	18.8073
Maximum	0.6350	2.0115	2.9764	6.9100e-003	0.3746	0.0828	0.4239	0.1424	0.0779	0.1882	0.0000	623.1995	623.1995	0.0783	0.0380	631.2347

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	0.0480	0.5893	1.2917	4.6400e-003	0.2261	8.2600e-003	0.2344	0.0769	8.0100e-003	0.0850	0.0000	430.8037	430.8037	0.0489	0.0380	443.3495
2024	0.1319	0.5547	3.1513	6.9100e-003	0.3309	8.3900e-003	0.3393	0.0888	8.2100e-003	0.0970	0.0000	623.1992	623.1992	0.0783	0.0204	631.2343
2025	0.6298	9.5600e-003	0.1361	2.1000e-004	5.6100e-003	2.9000e-004	5.8900e-003	1.4900e-003	2.9000e-004	1.7700e-003	0.0000	18.6752	18.6752	4.1100e-003	1.0000e-004	18.8072
Maximum	0.6298	0.5893	3.1513	6.9100e-003	0.3309	8.3900e-003	0.3393	0.0888	8.2100e-003	0.0970	0.0000	623.1992	623.1992	0.0783	0.0380	631.2343

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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	22.22	67.41	-7.18	0.00	20.88	87.47	31.51	28.12	86.96	48.86	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	9-1-2023	11-30-2023	1.3858	0.5732
2	12-1-2023	2-29-2024	0.5890	0.1760
3	3-1-2024	5-31-2024	0.5813	0.1754
4	6-1-2024	8-31-2024	0.5806	0.1747
5	9-1-2024	11-30-2024	0.5756	0.1742
6	12-1-2024	2-28-2025	0.8640	0.6842
		Highest	1.3858	0.6842

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164
Energy	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	307.1150	307.1150	0.0158	4.4000e-003	308.8208
Mobile	0.6951	0.8647	7.2044	0.0160	1.7975	0.0113	1.8088	0.4787	0.0105	0.4892	0.0000	1,502.6312	1,502.6312	0.0795	0.0624	1,523.2158
Waste						0.0000	0.0000		0.0000	0.0000	23.0882	0.0000	23.0882	1.3645	0.0000	57.2000
Water						0.0000	0.0000		0.0000	0.0000	4.0524	45.3538	49.4062	0.4201	0.0103	62.9743
Total	1.5372	1.0213	9.2427	0.0170	1.7975	0.0331	1.8306	0.4787	0.0323	0.5110	27.1406	1,858.3384	1,885.4790	1.8829	0.0771	1,955.5273

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

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	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164
Energy	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	307.1150	307.1150	0.0158	4.4000e-003	308.8208
Mobile	0.6951	0.8647	7.2044	0.0160	1.7975	0.0113	1.8088	0.4787	0.0105	0.4892	0.0000	1,502.6312	1,502.6312	0.0795	0.0624	1,523.2158
Waste						0.0000	0.0000		0.0000	0.0000	23.0882	0.0000	23.0882	1.3645	0.0000	57.2000
Water						0.0000	0.0000		0.0000	0.0000	4.0524	45.3538	49.4062	0.4201	0.0103	62.9743
Total	1.5372	1.0213	9.2427	0.0170	1.7975	0.0331	1.8306	0.4787	0.0323	0.5110	27.1406	1,858.3384	1,885.4790	1.8829	0.0771	1,955.5273

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	9/1/2023	9/14/2023	5	10	
2	Grading	Grading	9/15/2023	10/26/2023	5	30	
3	Building Construction	Building Construction	10/27/2023	12/19/2024	5	300	

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

4	Paving	Paving	12/20/2024	1/16/2025	5	20
5	Architectural Coating	Architectural Coating	1/17/2025	2/13/2025	5	20

Acres of Grading (Site Preparation Phase): 15**Acres of Grading (Grading Phase): 90****Acres of Paving: 3.75****Residential Indoor: 388,800; Residential Outdoor: 129,600; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,810 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	8,125.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	209.00	48.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	0.0133	0.1376	0.0912	1.9000e-004	0.0983	6.3300e-003	0.1046	0.0505	5.8200e-003	0.0563	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

3.2 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.8300e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7617	0.7617	2.0000e-005	2.0000e-005	0.7681
Total	2.9000e-004	2.2000e-004	2.8300e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7617	0.7617	2.0000e-005	2.0000e-005	0.7681

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					0.0376	0.0000	0.0376	0.0193	0.0000	0.0193	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0376	3.1000e-004	0.0379	0.0193	3.1000e-004	0.0196	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606

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

3.2 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.8300e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7617	0.7617	2.0000e-005	2.0000e-005	0.7681
Total	2.9000e-004	2.2000e-004	2.8300e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7617	0.7617	2.0000e-005	2.0000e-005	0.7681

3.3 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					0.1422	0.0000	0.1422	0.0554	0.0000	0.0554	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	0.0498	0.5177	0.4208	9.3000e-004	0.1422	0.0214	0.1635	0.0554	0.0197	0.0751	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642

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

3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5900e-003	0.4280	0.1125	2.2300e-003	0.0701	4.9000e-003	0.0750	0.0192	4.6900e-003	0.0239	0.0000	216.4020	216.4020	3.0500e-003	0.0341	226.6400
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.2000e-004	9.4200e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3100e-003	8.8000e-004	1.0000e-005	8.9000e-004	0.0000	2.5390	2.5390	6.0000e-005	7.0000e-005	2.5604
Total	9.5600e-003	0.4287	0.1220	2.2600e-003	0.0734	4.9200e-003	0.0783	0.0201	4.7000e-003	0.0248	0.0000	218.9409	218.9409	3.1100e-003	0.0342	229.2004

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					0.0544	0.0000	0.0544	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0495	0.4950	9.3000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	0.0114	0.0495	0.4950	9.3000e-004	0.0544	1.5200e-003	0.0559	0.0212	1.5200e-003	0.0227	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.5900e-003	0.4280	0.1125	2.2300e-003	0.0701	4.9000e-003	0.0750	0.0192	4.6900e-003	0.0239	0.0000	216.4020	216.4020	3.0500e-003	0.0341	226.6400
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.2000e-004	9.4200e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3100e-003	8.8000e-004	1.0000e-005	8.9000e-004	0.0000	2.5390	2.5390	6.0000e-005	7.0000e-005	2.5604
Total	9.5600e-003	0.4287	0.1220	2.2600e-003	0.0734	4.9200e-003	0.0783	0.0201	4.7000e-003	0.0248	0.0000	218.9409	218.9409	3.1100e-003	0.0342	229.2004

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0362	0.3309	0.3736	6.2000e-004		0.0161	0.0161		0.0151	0.0151	0.0000	53.3151	53.3151	0.0127	0.0000	53.6322
Total	0.0362	0.3309	0.3736	6.2000e-004		0.0161	0.0161		0.0151	0.0151	0.0000	53.3151	53.3151	0.0127	0.0000	53.6322

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-003	0.0379	0.0151	1.9000e-004	6.9700e-003	3.1000e-004	7.2900e-003	2.0100e-003	3.0000e-004	2.3100e-003	0.0000	18.5749	18.5749	1.9000e-004	2.7500e-003	19.3980
Worker	0.0156	0.0116	0.1509	4.4000e-004	0.0528	2.5000e-004	0.0531	0.0140	2.3000e-004	0.0143	0.0000	40.6832	40.6832	1.0000e-003	1.0700e-003	41.0262
Total	0.0168	0.0494	0.1660	6.3000e-004	0.0598	5.6000e-004	0.0604	0.0160	5.3000e-004	0.0166	0.0000	59.2580	59.2580	1.1900e-003	3.8200e-003	60.4242

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.5400e-003	0.0514	0.4016	6.2000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	53.3150	53.3150	0.0127	0.0000	53.6321
Total	7.5400e-003	0.0514	0.4016	6.2000e-004		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004	0.0000	53.3150	53.3150	0.0127	0.0000	53.6321

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-003	0.0379	0.0151	1.9000e-004	6.9700e-003	3.1000e-004	7.2900e-003	2.0100e-003	3.0000e-004	2.3100e-003	0.0000	18.5749	18.5749	1.9000e-004	2.7500e-003	19.3980
Worker	0.0156	0.0116	0.1509	4.4000e-004	0.0528	2.5000e-004	0.0531	0.0140	2.3000e-004	0.0143	0.0000	40.6832	40.6832	1.0000e-003	1.0700e-003	41.0262
Total	0.0168	0.0494	0.1660	6.3000e-004	0.0598	5.6000e-004	0.0604	0.0160	5.3000e-004	0.0166	0.0000	59.2580	59.2580	1.1900e-003	3.8200e-003	60.4242

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	0.1869	1.7074	2.0532	3.4200e-003		0.0779	0.0779		0.0733	0.0733	0.0000	294.4484	294.4484	0.0696	0.0000	296.1891
Total	0.1869	1.7074	2.0532	3.4200e-003		0.0779	0.0779		0.0733	0.0733	0.0000	294.4484	294.4484	0.0696	0.0000	296.1891

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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	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	6.5000e-003	0.2090	0.0823	1.0500e-003	0.0385	1.7300e-003	0.0402	0.0111	1.6500e-003	0.0128	0.0000	100.9855	100.9855	1.0700e-003	0.0149	105.4553
Worker	0.0805	0.0568	0.7806	2.3400e-003	0.2917	1.3300e-003	0.2931	0.0775	1.2200e-003	0.0787	0.0000	219.2594	219.2594	5.0200e-003	5.4700e-003	221.0153
Total	0.0870	0.2659	0.8629	3.3900e-003	0.3303	3.0600e-003	0.3333	0.0886	2.8700e-003	0.0915	0.0000	320.2449	320.2449	6.0900e-003	0.0204	326.4706

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	0.0416	0.2838	2.2175	3.4200e-003		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	294.4480	294.4480	0.0696	0.0000	296.1887
Total	0.0416	0.2838	2.2175	3.4200e-003		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	294.4480	294.4480	0.0696	0.0000	296.1887

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5000e-003	0.2090	0.0823	1.0500e-003	0.0385	1.7300e-003	0.0402	0.0111	1.6500e-003	0.0128	0.0000	100.9855	100.9855	1.0700e-003	0.0149	105.4553
Worker	0.0805	0.0568	0.7806	2.3400e-003	0.2917	1.3300e-003	0.2931	0.0775	1.2200e-003	0.0787	0.0000	219.2594	219.2594	5.0200e-003	5.4700e-003	221.0153
Total	0.0870	0.2659	0.8629	3.3900e-003	0.3303	3.0600e-003	0.3333	0.0886	2.8700e-003	0.0915	0.0000	320.2449	320.2449	6.0900e-003	0.0204	326.4706

3.5 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	3.9500e-003	0.0381	0.0585	9.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	8.0106	8.0106	2.5900e-003	0.0000	8.0754
Paving	1.9700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.9200e-003	0.0381	0.0585	9.0000e-005		1.8700e-003	1.8700e-003		1.7200e-003	1.7200e-003	0.0000	8.0106	8.0106	2.5900e-003	0.0000	8.0754

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3.5 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4956	0.4956	1.0000e-005	1.0000e-005	0.4996
Total	1.8000e-004	1.3000e-004	1.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4956	0.4956	1.0000e-005	1.0000e-005	0.4996

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	1.1200e-003	4.8600e-003	0.0692	9.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	8.0106	8.0106	2.5900e-003	0.0000	8.0754
Paving	1.9700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0900e-003	4.8600e-003	0.0692	9.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	8.0106	8.0106	2.5900e-003	0.0000	8.0754

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3.5 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.3000e-004	1.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4956	0.4956	1.0000e-005	1.0000e-005	0.4996
Total	1.8000e-004	1.3000e-004	1.7600e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4956	0.4956	1.0000e-005	1.0000e-005	0.4996

3.5 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4900e-003	0.0515	0.0875	1.4000e-004		2.5100e-003	2.5100e-003		2.3100e-003	2.3100e-003	0.0000	12.0116	12.0116	3.8800e-003	0.0000	12.1087
Paving	2.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.4400e-003	0.0515	0.0875	1.4000e-004		2.5100e-003	2.5100e-003		2.3100e-003	2.3100e-003	0.0000	12.0116	12.0116	3.8800e-003	0.0000	12.1087

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

3.5 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.4700e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7254	0.7254	2.0000e-005	2.0000e-005	0.7309
Total	2.6000e-004	1.7000e-004	2.4700e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7254	0.7254	2.0000e-005	2.0000e-005	0.7309

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	1.6800e-003	7.2900e-003	0.1038	1.4000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	12.0115	12.0115	3.8800e-003	0.0000	12.1087
Paving	2.9500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.6300e-003	7.2900e-003	0.1038	1.4000e-004		2.2000e-004	2.2000e-004		2.2000e-004	2.2000e-004	0.0000	12.0115	12.0115	3.8800e-003	0.0000	12.1087

Xenia and Eight Street Multifamily Residential Project - 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 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	2.4700e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7254	0.7254	2.0000e-005	2.0000e-005	0.7309
Total	2.6000e-004	1.7000e-004	2.4700e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7254	0.7254	2.0000e-005	2.0000e-005	0.7309

3.6 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.6251	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

3.6 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	8.1000e-004	0.0115	4.0000e-005	4.6200e-003	2.0000e-005	4.6400e-003	1.2300e-003	2.0000e-005	1.2400e-003	0.0000	3.3851	3.3851	7.0000e-005	8.0000e-005	3.4109
Total	1.1900e-003	8.1000e-004	0.0115	4.0000e-005	4.6200e-003	2.0000e-005	4.6400e-003	1.2300e-003	2.0000e-005	1.2400e-003	0.0000	3.3851	3.3851	7.0000e-005	8.0000e-005	3.4109

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	0.6234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	0.6237	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2025****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1900e-003	8.1000e-004	0.0115	4.0000e-005	4.6200e-003	2.0000e-005	4.6400e-003	1.2300e-003	2.0000e-005	1.2400e-003	0.0000	3.3851	3.3851	7.0000e-005	8.0000e-005	3.4109
Total	1.1900e-003	8.1000e-004	0.0115	4.0000e-005	4.6200e-003	2.0000e-005	4.6400e-003	1.2300e-003	2.0000e-005	1.2400e-003	0.0000	3.3851	3.3851	7.0000e-005	8.0000e-005	3.4109

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6951	0.8647	7.2044	0.0160	1.7975	0.0113	1.8088	0.4787	0.0105	0.4892	0.0000	1,502.6312	1,502.6312	0.0795	0.0624	1,523.2158
Unmitigated	0.6951	0.8647	7.2044	0.0160	1.7975	0.0113	1.8088	0.4787	0.0105	0.4892	0.0000	1,502.6312	1,502.6312	0.0795	0.0624	1,523.2158

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,405.44	1,562.88	1205.76	4,781,982	4,781,982
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,405.44	1,562.88	1,205.76	4,781,982	4,781,982

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.548752	0.057478	0.177127	0.144672	0.027288	0.003261	0.005053	0.008340	0.000275	0.000141	0.024682	0.000491	0.002439
Parking Lot	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

Recreational Swimming Pool	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	152.1371	152.1371	0.0128	1.5600e-003	152.9220
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	152.1371	152.1371	0.0128	1.5600e-003	152.9220
Natural Gas Mitigated	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988
Natural Gas Unmitigated	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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					
Apartments Low Rise	2.90417e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Apartments Low Rise	2.90417e+006	0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Total		0.0157	0.1338	0.0569	8.5000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	154.9778	154.9778	2.9700e-003	2.8400e-003	155.8988

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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			
Apartments Low Rise	800630	141.9882	0.0120	1.4500e-003	142.7207
Parking Lot	57226.7	10.1489	8.6000e-004	1.0000e-004	10.2013
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		152.1371	0.0128	1.5500e-003	152.9220

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	800630	141.9882	0.0120	1.4500e-003	142.7207
Parking Lot	57226.7	10.1489	8.6000e-004	1.0000e-004	10.2013
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		152.1371	0.0128	1.5500e-003	152.9220

6.0 Area Detail**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164
Unmitigated	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164

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	0.0623					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7044					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0597	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164
Total	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164

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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	0.0623					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7044					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0597	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164
Total	0.8264	0.0228	1.9813	1.0000e-004		0.0110	0.0110		0.0110	0.0110	0.0000	3.2385	3.2385	3.1100e-003	0.0000	3.3164

7.0 Water Detail

7.1 Mitigation Measures Water

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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	49.4062	0.4201	0.0103	62.9743
Unmitigated	49.4062	0.4201	0.0103	62.9743

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	12.5096 / 7.88647	48.3948	0.4114	0.0101	61.6828
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.263778 / 0.161671	1.0114	8.6700e-003	2.1000e-004	1.2915
Total		49.4062	0.4200	0.0103	62.9743

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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			
Apartments Low Rise	12.5096 / 7.88647	48.3948	0.4114	0.0101	61.6828
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.263778 / 0.161671	1.0114	8.6700e-003	2.1000e-004	1.2915
Total		49.4062	0.4200	0.0103	62.9743

8.0 Waste Detail

8.1 Mitigation Measures Waste

Xenia and Eight Street Multifamily Residential Project - 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	23.0882	1.3645	0.0000	57.2000
Unmitigated	23.0882	1.3645	0.0000	57.2000

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	88.32	17.9282	1.0595	0.0000	44.4163
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	25.42	5.1600	0.3050	0.0000	12.7838
Total		23.0882	1.3645	0.0000	57.2000

Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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			
Apartments Low Rise	88.32	17.9282	1.0595	0.0000	44.4163
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	25.42	5.1600	0.3050	0.0000	12.7838
Total		23.0882	1.3645	0.0000	57.2000

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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Xenia and Eight Street Multifamily Residential Project - Riverside-South Coast County, Annual

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

11.0 Vegetation

Appendix C

EMFAC2017 Vehicle Fuel Consumption Data

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: Air District
Region: South Coast AQMD
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel Split (Gas:Diesel)	MPG, by Fuel Type	MPG, Average
SOUTH COAST AQMD	2024	LDA	Aggregate	Aggregate	Gasoline	6721891.297	253006673.7	7787.150873	0.993591401	32.49027505	32.609858
SOUTH COAST AQMD	2024	LDA	Aggregate	Aggregate	Diesel	65701.80516	2569094.642	50.2266094	0.006408599	51.15007109	
SOUTH COAST AQMD	2024	LDT1	Aggregate	Aggregate	Gasoline	779748.6283	28286817.37	1018.205639	0.999667891	27.78104569	27.779533
SOUTH COAST AQMD	2024	LDT1	Aggregate	Aggregate	Diesel	336.6362364	7857.181353	0.338267227	0.000332109	23.22773457	
SOUTH COAST AQMD	2024	LDT2	Aggregate	Aggregate	Gasoline	2324381.709	85796127.87	3256.04031	0.99440326	26.3498359	26.412498
SOUTH COAST AQMD	2024	LDT2	Aggregate	Aggregate	Diesel	16866.70208	688058.7876	18.32577707	0.00559674	37.54595427	
SOUTH COAST AQMD	2024	MDV	Aggregate	Aggregate	Gasoline	1599677.021	55496538.13	2605.861943	0.980433943	21.29680671	21.44412
SOUTH COAST AQMD	2024	MDV	Aggregate	Aggregate	Diesel	38789.91307	1499058.187	52.00395627	0.019566057	28.82584893	
SOUTH COAST AQMD	2024	LHDT1	Aggregate	Aggregate	Gasoline	174005.1304	6143072.551	571.0938215	0.710793487	10.75667836	14.06391
SOUTH COAST AQMD	2024	LHDT1	Aggregate	Aggregate	Diesel	131545.2386	5156710.286	232.3657373	0.289206513	22.19221451	
SOUTH COAST AQMD	2024	LHDT2	Aggregate	Aggregate	Gasoline	30198.85656	1028982.266	110.0044405	0.524136642	9.354006634	14.438065
SOUTH COAST AQMD	2024	LHDT2	Aggregate	Aggregate	Diesel	52580.787	2001241.348	99.87296869	0.475863358	20.03786785	
SOUTH COAST AQMD	2024	MHDT	Aggregate	Aggregate	Gasoline	25804.01311	1359447.346	260.9695593	0.262882364	5.209218076	9.7332055
SOUTH COAST AQMD	2024	MHDT	Aggregate	Aggregate	Diesel	127715.0631	8302936.698	731.7541635	0.737117636	11.34662037	
SOUTH COAST AQMD	2024	HHDT	Aggregate	Aggregate	Gasoline	74.26701173	8620.013986	1.970996537	0.001023098	4.373429291	7.2369628
SOUTH COAST AQMD	2024	HHDT	Aggregate	Aggregate	Diesel	112561.0217	13933380.76	1924.527902	0.998976902	7.239895427	
SOUTH COAST AQMD	2024	OBUS	Aggregate	Aggregate	Gasoline	5954.495306	241431.3981	46.57584459	0.545658396	5.183618252	6.8388074
SOUTH COAST AQMD	2024	OBUS	Aggregate	Aggregate	Diesel	4446.352976	342309.6953	38.78130359	0.454341604	8.826668099	
SOUTH COAST AQMD	2024	UBUS	Aggregate	Aggregate	Gasoline	963.3912088	90309.26527	17.13863049	0.987830384	5.269339654	5.2746433
SOUTH COAST AQMD	2024	UBUS	Aggregate	Aggregate	Diesel	10.4228222	1204.585498	0.211140045	0.012169616	5.705149394	
SOUTH COAST AQMD	2024	SBUS	Aggregate	Aggregate	Gasoline	2938.097706	117037.9587	12.58591075	0.315821259	9.299125111	8.2591136
SOUTH COAST AQMD	2024	SBUS	Aggregate	Aggregate	Diesel	6709.767948	212099.0577	27.2654621	0.684178741	7.779037705	
SOUTH COAST AQMD	2024	MCY	Aggregate	Aggregate	Gasoline	313845.7262	2132419.376	58.88420697	1	36.21377421	36.213774
SOUTH COAST AQMD	2024	MH	Aggregate	Aggregate	Gasoline	34296.13104	327056.6532	61.78369342	0.841147789	5.29357562	6.1695474
SOUTH COAST AQMD	2024	MH	Aggregate	Aggregate	Diesel	13472.14217	126106.7887	11.66795706	0.158852211	10.8079579	