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AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

**PROPOSED VILLAGE AT MORENO VALLEY
NWC NASON STREET AND FIR STREET
MORENO VALLEY, CALIFORNIA**

**SALEM PROJECT NO. 3-418-0250
SEPTEMBER 24, 2021**

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May 3, 2021

Job No. 3-418-0250

AIR QUALITY AND GREENHOUSE GAS ASSESSMENT**PROPOSED VILLAGE AT MORENO VALLEY – PHASE I
NWC NASON STREET AND FIR AVENUE
MORENO VALLEY, CALIFORNIA****1.0 INTRODUCTION**

This report presents an assessment of potential air quality and greenhouse gas (GHG) impacts associated with the proposed retail project to be constructed at the NWC of Nason & Fir Street, Moreno Valley, California (subject property). At this time the following improvements are planned:

Site Development is 9.3 acres to be final graded and will include:

- Retail “A” – 3,000 sf
- Retail “B” – 3,500 sf
- Retail “C” – 4,500 sf
- Food “A” – 3,000 sf
- Food “B” – 3,000 sf
- Food “C” – 1,500 sf
- Food “D” – 2,500 sf
- Retail Anchor “A” – 16,000 sf
- Retail Anchor “B” – 6,000 sf
- Fast Food – 4,456 sf
- Restaurant – 4,500 sf
- Convenience Store/18 fuel pumps
- Car Wash – 1,600 sf
- Parking Lot – 439 spaces

GHG impacts will be attributable to emissions associated with construction and operational emissions including traffic and energy use. This report presents an evaluation of existing conditions at the subject property, thresholds of significance, and potential air quality and GHG impacts associated with construction and operation of the project.

2.0 EXISTING CONDITIONS**2.1 Current Development**

The subject property is currently vacant land and residential development with a single-family home. Offsite and onsite improvements exist however new improvement will be constructed to allow for vehicle and pedestrian access to the new site development.

2.2 Regulatory Setting

The United States Environmental Protection Agency (EPA) defines air quality by ambient air concentrations of specific pollutants that have been shown to be of concern with respect to health and welfare of the general public. The EPA is responsible for enforcing the Federal Clean Air Act (CAA) of

1970 and its 1977 and 1990 Amendments. The CAA required the EPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated.

In response, the EPA established both primary and secondary standards for several pollutants (called “criteria” pollutants). Primary standards are designed to protect human health with an adequate margin of safety. Secondary standards are designed to protect property and the public welfare from air pollutants in the atmosphere.

The Federal CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. More stringent California Ambient Air Quality Standards (CAAQS) have been adapted by the California Air Resources Board (ARB) for the six criteria pollutants through the California Clean Air Act of 1988 (CCAA). The CCAA also established California Ambient Air Quality Standards (CAAQS) for additional pollutants, including sulfates, hydrogen sulfide, vinyl chloride and visibility-reducing particles (see Table 1 for NAAQS and CAAQS.)

Areas that do not meet the NAAQS or the CAAQS for a particular pollutant are considered to be “Nonattainment Areas” for that pollutant. In September 1997, the EPA promulgated 8-hour O₃ and 24-hour and annual PM_{2.5} national standards. As a result, this action has initiated a new planning process to monitor and evaluate emission control measures for these pollutants.

The South Coast Air Basin (SCAB) is classified as an Extreme Nonattainment Area for the NAAQS for O₃ for all Averaging Times and a Nonattainment Area for the NAAQS PM_{2.5} for all Averaging times. The SCAB is also designated as a Maintenance Area for the NAAQS for CO and NO₂. The SCAB is also considered a Serious Nonattainment Area for the CAAQS pollutant PM₁₀. The area is considered unclassified or Attainment for all other NAAQS and CAAQS for the other criteria pollutants.

The California ARB is the state regulatory agency with authority to enforce regulations to both achieve and maintain the NAAQS and CAAQS. The ARB is responsible for the development, adoption, and enforcement of the state’s motor vehicle emissions program, as well as the adoption of the CAAQS. The ARB also reviews operations and programs of the local air districts and requires each air district with jurisdiction over a nonattainment area to develop its own strategy for achieving the NAAQS and CAAQS.

The local air district has the primary responsibility for the development and implementation of rules and regulations designed to attain the NAAQS and CAAQS, as well as the permitting of new or modified sources, development of air quality management plans, and adoption and enforcement of air pollution regulations. The South Coast Air Quality Management District (SCAQMD) is the local agency responsible for the administration and enforcement of air quality regulations for the SCAB.

The SCAQMD and the Southern California Association of Governments (SCAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SCAB. The most recently adopted air quality plan in the SCAB is the 2016 Air Quality Management Plan (AQMP), which was adopted by the Board in March 2017.

Table 1 presents a summary of the ambient air quality standards adopted by the federal and California Clean Air Acts.

TABLE 1
Ambient Air Quality Standards

POLLUTANT	AVERAGE TIME	CALIFORNIA STANDARDS CONCENTRATION	CALIFORNIA STANDARDS METHODS	NATIONAL STANDARDS PRIMARY	NATIONAL STANDARDS SECONDARY	NATIONAL STANDARDS METHOD
Ozone (O ₃)	1 hour	0.09 ppm (180 µg/m ³)	Ultraviolet Photometry			Ultraviolet Photometry
	8 hour	0.070 ppm (137 µg/m ³)		0.070 ppm (137 µg/m ³)	0.070 ppm (137 µg/m ³)	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 µg/m ³)	—	Non-Dispersive Infrared Spectroscopy (NDIR)
	8 Hour	9.0 ppm (10 mg/m ³)		9 ppm (10 µg/m ³)	—	
Nitrogen Dioxide (NO ₂)	Annual	0.030 ppm (56 µg/m ³)	Gas Phase Chemiluminescence	0.053 ppm (100 µg/m ³)	0.053 ppm (100 µg/m ³)	Gas Phase Chemiluminescence
	1 hour	0.18 ppm (338 µg/m ³)		0.100 ppm (188 µg/m ³)	-	
Sulfur Dioxide (SO ₂)	24 hours	0.04 ppm (105 µg/m ³)	Ultraviolet Fluorescence	0.14 ppm (for certain areas)		Pararosaniline
	3 hours	--			0.5 ppm (1300 µg/m ³)	
	1 hour	0.25 ppm (655 µg/m ³)		75ppb (196 µg/m ³)		
	Annual	-		0.030 ppm (for certain areas)	-	
Respirable Particulate Matter (PM ₁₀)	24 hours	50 µg/m ³	Gravimetric or Beta Attenuation	150 µg/m ³	150 µg/m ³	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m ³				
Fine Particulate Matter (PM _{2.5})	Annual Arithmetic Mean	12 µg/m ³	Gravimetric or Beta Attenuation	12.0 µg/m ³	15 µg/m ³	Inertial Separation and Gravimetric Analysis
	24 hours			35 µg/m ³	35 µg/m ³	
Sulfates	24 hours	25 µg/m ³	Ion Chromatography	No National Standards		
Lead	30-day Average	1.5 µg/m ³	Atomic Absorption			Atomic Absorption
	Calendar Quarter			1.5 µg/m ³	1.5 µg/m ³	
	3-Month Rolling			0.15 µg/m ³	0.15 µg/m ³	
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m ³)	Ultraviolet Fluorescence	No National Standards		
Vinyl Chloride	24 hours	0.010 ppm (26 µg/m ³)	Gas Chromatography	No National Standards		

ppm= parts per million; µg/m³ = micrograms per cubic meter; mg/m³= milligrams per cubic meter Source: California Air Resources Board, www.arb.ca.gov, 2016

3.0 THRESHOLDS OF SIGNIFICANCE

The SCAQMD has adopted CEQA significance thresholds as of 2015 (SCAQMD 2015), which provide guidance on the requirements for evaluating potential air quality impacts and on thresholds of significance under CEQA. The SCAQMD has identified numerical emission thresholds for significance for construction and operation for a project. The project-level numerical thresholds are summarized in Table 2.

TABLE 2
SCAQMD Significance Thresholds

POLLUTANT	CONSTRUCTION	OPERATION
<i>Criteria Pollutants Mass Daily Thresholds</i>		
NO _x	100 lbs/day	55 lbs/day
ROG (VOC)	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO _x	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day
<i>TAC, AHM, and Odor Thresholds</i>		
Toxic Air Contaminants (TACs)	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 (in areas ≥ 1 in a million) Chronic and Acute Hazard Index ≥ 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
GHG	10,000 MT/yr CO ₂ eq for industrial facilities	
<i>Ambient Air Quality for Criteria Pollutants</i>		
NO2 1-hour average Annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)	
PM10 24-hour average Annual geometric mean	10.4 µg/m ³ construction & 2.5 µg/m ³ operation 1.0 µg/m ³	
PM2.5 24-hour average	10.4 µg/m ³ construction & 2.5 µg/m ³ operation	
SO2 1-hour average 24-hour average	0.25 ppm (state) & 0.075 ppm (federal – 99 th percentile) 0.04 ppm (state)	
Sulfate 24-hour average	25 µg/m ³ (state)	
CO 1-hour average 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
Lead 30-day average Rolling 3-month average Quarterly average	1.5 µg/m ³ (state) 0.15 µg/m ³ (federal) 1.5 µg/m ³ (federal)	

µg/m³ = microgram per cubic meter; ppm = parts per million; MT = Metric Ton

To further evaluate the potential for significant impacts associated with the project, the SCAQMD's *Final Localized Significance Threshold Methodology* (SCAQMD 2008) can be considered to evaluate whether a project's emissions could cause a localized exceedance of an ambient air quality standard.

The Localized Significance Threshold (LST) Methodology provides a look-up table for construction and operational emissions based on the emission rate, location, and distance from receptors, and provides a methodology for air dispersion modeling to evaluate whether a construction or operation could cause an exceedance of an ambient air quality standard. The LST lookup tables (SCAQMD 2009) are applicable only to sources that are five acres or less in size. Because this development is planned for a total of 9.3 acres, LST thresholds do not apply as they are for projects of 5 acres or less.

4.0 IMPACTS

The proposed retail Development improvements to be constructed include both construction and operational impacts. Construction impacts include emissions associated with site grading/preparation, utilities installation, construction of a building, and paving. Operational impacts include emissions associated with the project, including traffic, at full build-out. Construction is summarized in Table 4 below.

Table 4
Construction Summary for Project Site

Area Disturbed	Construction Summary	Parking Spaces	Approximate Duration
22,000 sf	Regional Shopping Center	-	12 Months
4,456 sf	Fast Food Restaurant w/ Drive Through	-	12 Months
18 pumps	Convenience Market w/ Gas Pumps	-	12 Months
1,600	Car Wash	-	12 Months
11,000 sf	Strip Mall Retail	-	12 Months
9,000 sf	Fast Food Restaurants w/o Drive Through	-	12 Months
4,500	High Turnover (Sit Down Restaurant)	-	12 Months
-	Parking Lot	405	5 Months

4.1 Construction

Emissions of pollutants such as fugitive dust that are generated during construction are generally highest near the construction site. Emissions from the construction phase of the project were estimated through the use of the CalEEMod Model (ENVIRON 2016). It was assumed that heavy construction equipment would be operating at the site for eight hours per day, five days per week during project construction. In addition, it was assumed that, in accordance with the requirements of the SCAQMD Rule 403, fugitive dust controls would be utilized during construction, including watering of active sites three times daily.

For the purpose of estimating emissions from the application of architectural coatings, it was assumed that water-based coatings that would be compliant with SCAQMD Regulations would be used for both exterior and interior surfaces. Within the CalEEMod Model, this assumption was included by assigning all architectural coating a low VOC content.

Tables 5 and 6 provide summaries of the emission estimates for construction and operation of all proposed site improvements. These projected emissions assume standard measures are implemented to reduce emissions, as calculated with the CalEEMod Model, and are compared to the regional thresholds. Refer to Appendix B for detailed model output files.

Table 5 includes projected emissions for all steps of construction, averaged over the project's projected construction duration. These steps include: Grading Site, Site Preparation, Building Construction, Paving, and Architectural Coatings. Note that projected emissions for all pollutants during construction are below both the SCAQMD's Air Quality Significance Thresholds.

During Construction diesel-fired equipment will be operated and will result in the release of diesel particulate matter which is a listed carcinogen and toxic air contaminant in the State of California. The earthwork phase is the phase of construction in which the majority of diesel-fired equipment will be used. Because this duration is relatively short it is expected that the release of diesel will not have a negative impact to surrounding receptors.

Construction of the project would be short-term and temporary. Thus, the emissions associated with construction would not result in a significant impact on the ambient air quality. Because emissions are less than the significance levels, they would not conflict or obstruct the implementation of the AQMP or applicable portions of the SIP. Project construction would also not result in emission of any odor compounds that would cause a nuisance or significant impact to nearby receptors. The impacts associated with Project construction are therefore not considered significant.

Project construction would also not result in emission of any odor compounds that would cause a nuisance or significant impact to nearby receptors. The impacts associated with Project construction are therefore not considered significant.

Construction of the project would be short-term and temporary, therefore a cumulatively increase in the surrounding emissions associated with the area would not result in a significant impact on the ambient air quality. In addition, because emissions are less than the significance levels, they do not expose sensitive receptors to substantial pollutant concentrations.

Based on the above project analyst of the construction phase, the project construction phase will not conflict or obstruct the implementation of the AQMP or applicable portions of the SIP.

TABLE 5
Estimated Construction Emissions
Annual LBS/Day (unless otherwise shown)

EMISSION SOURCE	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Regional Significance Criteria	75	100	550	150	150	55
Project Construction Emissions						
Retail Development Summer Peak	28.23	33.12	21.17	0.04	21.47	11.64
Retail Development Winter Peak	28.24	33.13	21.11	0.04	21.47	11.64
<i>Significant?</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

4.2 Operational Impacts

The main operational impacts associated with the Project would be impacts associated with traffic. Minor impacts would be associated with energy use and area sources.

To address whether the Project would result in emissions that would violate any air quality standard or contribute substantially to an existing or proposed air quality violation, the emissions associated with Project-generated traffic and area sources were compared with the SCAQMD's quantitative significance criteria. Default trip generation rates in the CalEEMod Model were used to estimate emissions from vehicles traveling to and from the project development. The CalEEMod Model contains emission factors from the EMFAC2016 model, which is the latest version of the Caltrans emission factor model for on-road traffic. Project-related traffic was assumed to be comprised of a mixture of vehicles in accordance with the CalEEMod Model default outputs for traffic. This assumption includes light duty autos and light duty trucks (i.e., small trucks, SUVs, and vans) as well as medium- and heavy-duty vehicles that may be traveling to the facility to make deliveries. For conservative purposes, emission factors representing

the vehicle mix for 2019 were used to estimate emissions as 2019 was assumed to be the first year of full operation; based on the results of the EMFAC2016 model for subsequent years, emissions would decrease on an annual basis from 2019 onward due to phase-out of higher polluting vehicles and implementation of more stringent emission standards that are taken into account in the EMFAC2016 model. Emissions associated with area sources (energy use and landscaping activities) were also estimated using the default assumptions in the CalEEMod Model.

Table 6 below presents the results of the CalEEMod emission calculations in lbs/day for operations, as an annual average considering the project’s design features, along with a comparison with the SCAQMD Air Quality Significance Thresholds for Operations. The calculation assumed that the project would be constructed to current Title 24 buildings standards and would use low flow plumbing fixtures.

TABLE 6
Estimated Operational Emissions, LBS/Day (unless otherwise shown)

EMISSION SOURCE	ROG	NOx	CO	SO _x	PM ₁₀	PM _{2.5}
Significance Criteria, Operations	55	55	550	150	150	55
Project Construction Emissions						
Retail Development Summer Peak	37.10	29.55	250.07	0.47	46.29	12.65
Retail Development Winter Peak	35.19	31.67	251.65	0.45	46.29	12.65
<i>Significant?</i>	<i>No</i>	<i>Yes</i>	<i>No</i>	<i>No</i>	<i>No</i>	<i>No</i>

Based on the estimates of the emissions associated with project operations, the emissions are below the significance criteria with the exception of NOx. It should be noted that the emissions from vehicles are projected to decrease with time due to phase-out of older, more polluting vehicles and increasingly stringent emissions standards.

Projects involving traffic impacts may result in the formation of locally high concentrations of CO, known as CO “hot spots.” It is not anticipated that the project would have a significant impact on traffic in the area, and no intersections would degrade to unacceptable levels. The intersections in the project area would therefore operate at an acceptable LOS and would not experience CO “hot spots” because traffic congestion would not result.

In reviewing the project data, location and area a cumulatively increase in the surrounding emissions associated with the area would not result in a significant impact on the ambient air quality. In addition because emissions are less than the significance levels they do not expose sensitive receptors to substantial pollutant concentrations.

Based on the above project analyst of the operational phase, the project could conflict or obstruct the implementation of the AQMP or applicable portions of the SIP.

4.3 Odors

During construction, diesel equipment operating at the site may generate some nuisance odors; however, due to the distance of sensitive receptors to the project site and the temporary nature of construction, odors associated with project construction would not be significant.

Land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations. These land uses are not proposed for the retail project in Moreno Valley, CA. Odor impacts would not be significant.

5.0 GREENHOUSE GAS EVALUATION

According to the California Natural Resources Agency, “due to the global nature of GHG emissions and their potential effects, GHG emissions will typically be addressed in a cumulative impacts analysis.” According to Appendix G of the CEQA Guidelines, the following criteria may be considered to establish the significance of GHG emissions:

Would the project:

- Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed in Section 15064.4 of the CEQA Guidelines, the determination of the significance of greenhouse gas emissions calls for a careful judgment by the lead agency, consistent with the provisions in Section 15064. Section 15064.4 further provides that a lead agency should make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate the amount of GHG emissions resulting from a project. A lead agency shall have discretion to determine, in the context of a particular project, whether to:

- Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use. The lead agency has discretion to select the model or methodology it considers most appropriate provided it supports its decision with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use; and/or
- Rely on a qualitative analysis or performance-based standards.

Section 15064.4 also advises a lead agency to consider the following factors, among others, when assessing the significance of impacts from greenhouse gas emissions on the environment:

1. The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting;
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

On December 5, 2008, the SCAQMD Governing Board adopted the staff proposal for an interim GHG significance threshold for projects where the SCAQMD is lead agency. On September 28, 2010, the SCAQMD has recommended a threshold of 3,000 metric tons of CO₂e (carbon dioxide equivalent) as a Tier 3 threshold for all residential and commercial land uses under CEQA. For the purpose of this evaluation, a threshold of 3,000 metric tons of CO₂e is used to assess significance of greenhouse gas emissions.

On December 8, 2015, Riverside County adopted their General Plan with includes the Climate Action Plan (CAP). This plan contains guidance for Riverside County’s Greenhouse Gas. This plan provides equivalent threshold of 3,000 MT CO₂e and imposes mitigation checklist for those projects exceeding the threshold.

The proposed project would generate an estimated total of 490.73 metric tons of CO₂e emissions during construction. The SCAQMD recommends amortizing construction emissions over a period of 30 years

to estimate the contribution of construction emissions to operational emissions over the project lifetime. Amortized over 30 years, the construction of the project will generate approximately 16.36 metric tons of CO₂e on an annualized basis.

Based on the results of the CalEEMod Model, the project would generate a total of 6,340.78 metric tons of CO₂e emissions annually from operations. By adding the amortized construction emissions results with the operational annual CO₂e emissions the project will produce 6,357.14 metric tons over a 30-year period. This cumulative level is above the SCAQMD's recommended Tier 3 threshold of 3,000 metric tons of CO₂e emissions for residential and commercial land uses, although the district has not officially adopted this or any other number. In addition, the project would be in compliance with the City's Climate Action Plan as the land use and zoning for the project are consistent with the proposed use. Therefore, the project site's eventual use as proposed was considered when the Climate Action Plan projections were calculated, and the development would thus be consistent with the Climate Action Plan's reduction goals. Under the California Environmental Quality Act (CEQA) a project would not have significant greenhouse gas emissions if it is in compliance with a locally adopted Climate Action Plan.

6.0 CONCLUSIONS

The air quality and GHG analysis for the proposed project in Moreno Valley, CA evaluated emissions associated with both the construction and operation of the project. Emissions associated with construction and operation were compared with significance thresholds developed by the SCAQMD, which provide a conservative means of evaluating whether project emissions would cause a significant impact on the ambient air quality or whether further evaluation is warranted. Emissions associated with construction and operation are below the significance thresholds for all phases and pollutants. Thus, the emissions associated with construction and operation of the project would not result in a significant impact.

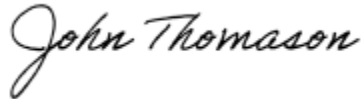
7.0 REFERENCES

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We appreciate the opportunity to assist you with this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office at (909) 980-6455.

Respectfully submitted,

SALEM Engineering Group, Inc.



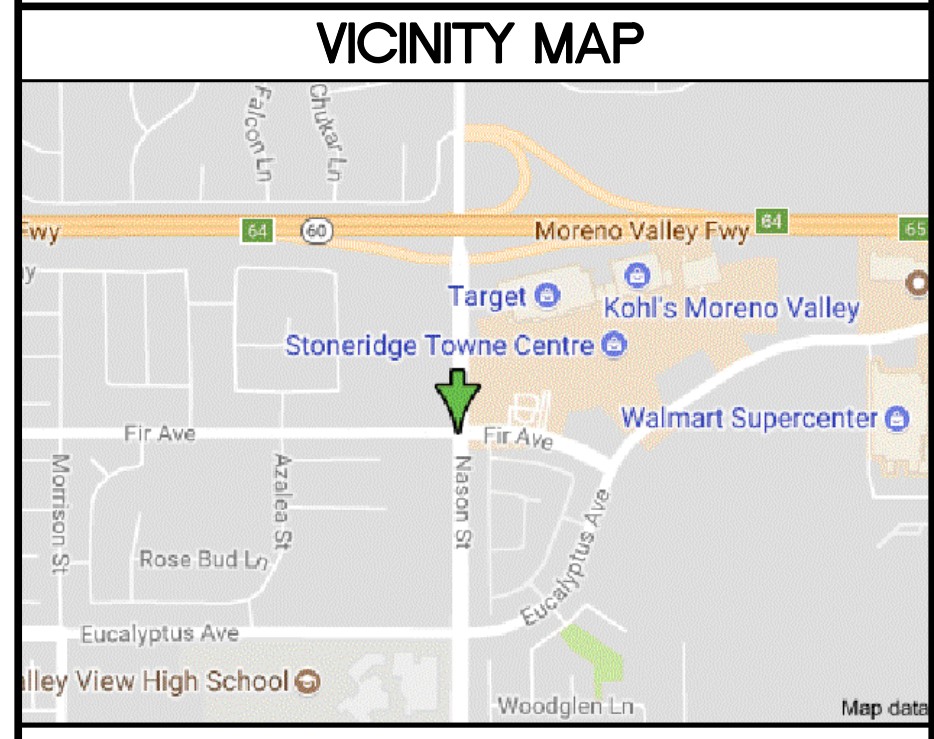
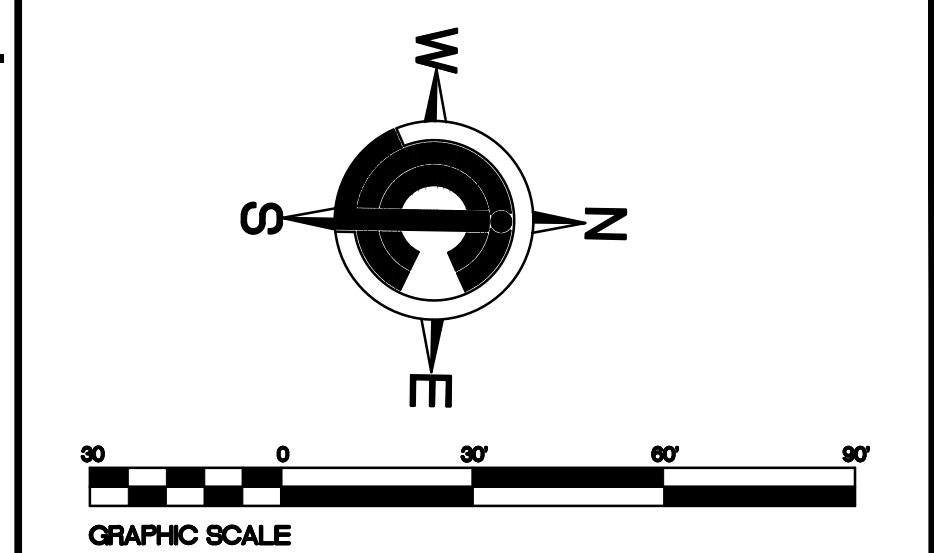
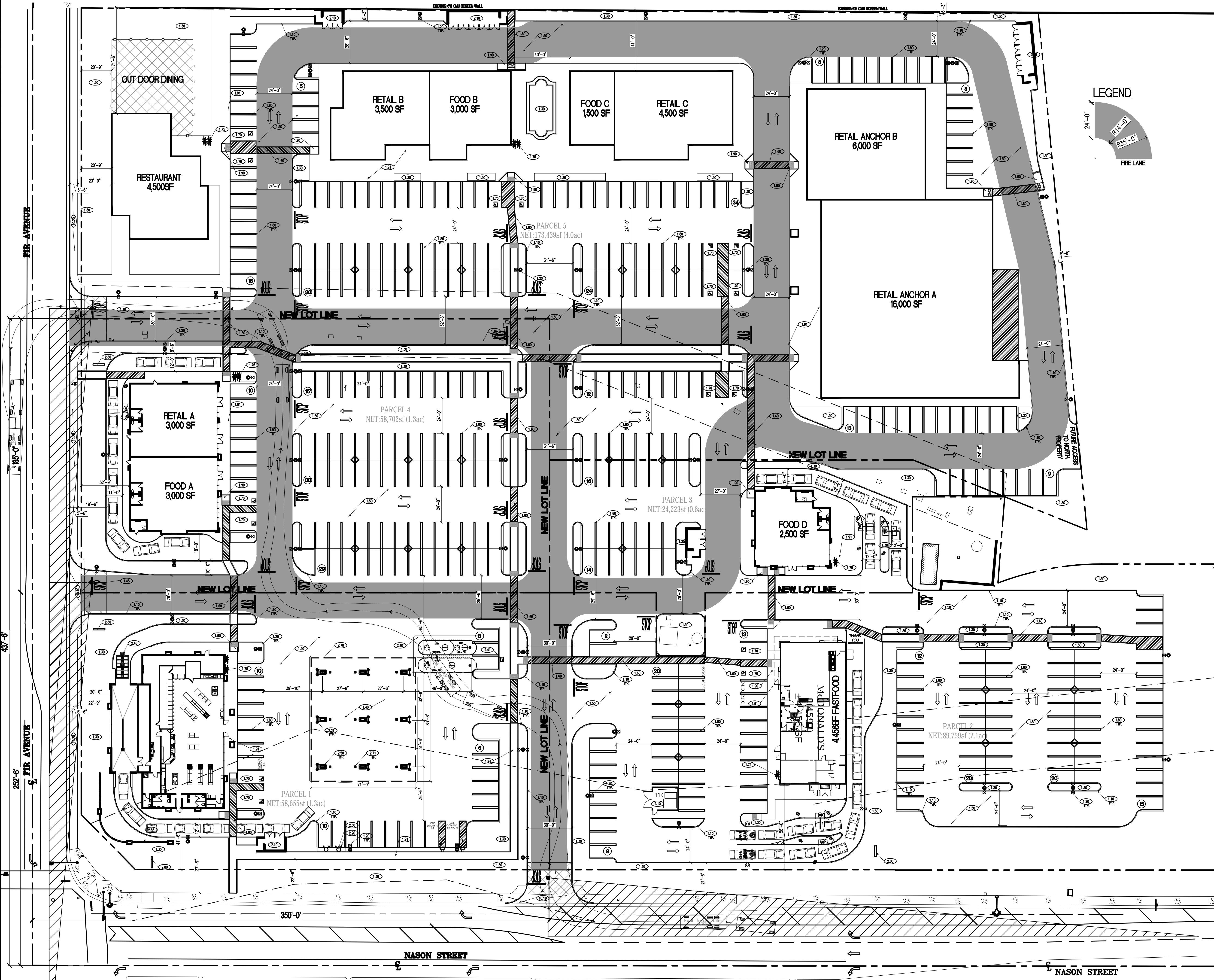
John Thomason
Air Quality Specialist



R. Sammy Salem, MS, PE
Principal Engineer

A





CONSTRUCTION NOTES

- 1.10 6" CONCRETE CURB
- 1.20 20'H LED AREA LIGHT WITH PHOTO-CELL AND TIME CLOCK SWITCHING PER "CALGREEN" AND TITLE 24 REQUIREMENTS. HOOD AND ARRANGE SO AS NOT TO CAUSE A NUISANCE TO ADJACENT STREET TRAFFIC OR TO LIVING ENVIRONMENT. THE AMOUNT OF LIGHT THAT SHALL BE PROVIDED SHALL BE PER THE PUBLIC WORKS STANDARDS AND CALGREEN
- 1.30 LANDSCAPING WITH AUTOMATIC IRRIGATION
- 1.40 6" CONCRETE DRIVE SLAB WITH #3 BARS @ 18" O.C. OR AS SPECIFIED IN SOILS REPORT IF AVAILABLE.
- 1.45 COLORED CONCRETE WITH 8X8 SCORE LINES
- 1.50 6" OVER 4" AB. ASPHALT PAVING OR AS SPECIFIED IN SOILS REPORT IF AVAILABLE.
- 1.60 HANDICAP PATH OF TRAVEL (MIN. 48" WIDE AND SLOPE NOT TO EXCEED 2% EACH WAY)
- 1.70 HANDICAP PARKING SPACE WITH ALL RELATED SIGNAGE (SLOPE NOT TO EXCEED 2% E.W.)
- 1.75 BICYCLE PARKING PER CAL GREEN CODE
- 1.80 9'X18" STANDARD PARKING SPACES
- 1.90 CONCRETE HANDICAP RAMP (SLOPE 8.33%)
- 1.91 CONCRETE SIDEWALK (MIN. 48" WIDE WITH 2% CROSS SLOPE WHERE HANDICAP PATH OF TRAVEL OCCURS)
- 2.10 TRASH ENCLOSURE PER CITY OF MORENO VALLEY PUBLIC WORKS STANDARD
- 2.20 CONCRETE FILLED STEEL GUARD POSTS
- 2.21 U-SHAPE STEEL GUARD POSTS
- 2.30 AIR/WATER AND VACUUM UNIT
- 2.35 ELECTRIC CHARGING STATION
- 2.40 UNDER GROUND STORAGE TANKS (2) 20,000 GALLON AND (1) 30,000 GALLON UNDER REINFORCED CONCRETE SLAB
- 2.41 TANK VENT RISERS CARBON CANISTER
- 2.45 3,000 GALLON CAR WASH CLARIFIER
- 2.50 CONCRETE ISLAND W/ (1) MULTI PRODUCT DISPENSER (6" MIN. & 8" MAX. HEIGHT)
- 2.70 FUELING CANOPY
- 2.71 FUELING CANOPY COLUMNS
- 2.80 ID SIGNAGE
- 2.85 36"H STUCCO FINISH SCREEN WALL
- 2.90 ELECTRICAL PANELS
- 3.10 ADA PARKING LOT ENTY SIGN PER CHAPTER 11B OF CBC
- 10.10 CONCRETE DRIVEWAY PER CITY OF MORENO VALLEY PUBLIC WORKS STANDARD
- 10.20 CONCRETE SIDEWALK PER CITY OF MORENO VALLEY PUBLIC WORKS STANDARD

SITE PLAN & PARKING SUMMARY

BUILDING NO.	SIZE	USE	RATIO	REQUIRED	PROVIDED
C-STORE BUILDING	5,427 S.F.	RETAIL	1/225	25	25
CAR WASH	1,600 S.F.	SERVICE	1/BAY	1	4
RETAIL - A	3,000 S.F.	RETAIL	1/225	14	41
FOOD - A	3,000 S.F.	FOOD	1/100	30	43
RESTAURANT BLDG.	4,500 S.F.	FOOD	1/100	45	40
FOOD - B	3,000 S.F.	FOOD	1/100	30	27
RETAIL - B	3,500 S.F.	RETAIL	1/225	16	12
FOOD - C	1,500 S.F.	FOOD	1/100	15	12
RETAIL - C	4,500 S.F.	RETAIL	1/225	20	16
RETAIL ANCHOR - A	16,000 S.F.	RETAIL	1/225	71	61
RETAIL ANCHOR - B	6,000 S.F.	RETAIL	1/225	27	24
FOOD - D	2,500 S.F.	FOOD	1/100	25	22
FASTFOOD BUILDING	4,466 S.F.	FOOD	1/100	45	111
TOTAL BUILDING S.F.	74,183 S.F.			364	439

TOTAL PARKING PROVIDED: 439 PARKING SPACES
 SITE IS OVER PARKED BY: 79 PARKING SPACES
 HANDICAPPED PARKING SPACES REQUIRED: 439 SPACES- 9 REQUIRED PER CODE. PROVIDED 16 SPACES

SITE PLAN

SCALE 1"=30'-0"

PE STAMP

NO.	DATE	DESCRIPTION	BY	APP.
0	07/24/21	REMOVED STORE TO RETAIL		
1	08/06/21	REMOVED SITE LAYOUT DUE TO CHANGING		
2	10/09/21	REMOVED SITE LAYOUT DUE TO CHANGING		
3	08/02/21	REMOVED PER CLIENT		
4	08/25/21	REMOVED PER CITY COMMENTS		

CJC Design, Inc.
 Design Planning Permitting
 22485 La Palma Avenue, Suite 202, Torrance, CA 90503
 Tel: (714) 920-8653 Fax: (714) 917-0250
 www.cjcorp.com

MORENO
 valley Center

PROJECT:
 N.W. COR. NASON ST. @ FIR AVENUE
 MORENO VALLEY, CA.
OVERALL SITE PLAN

DATE ISSUED: 10/23/17
 SCALE:
 DRAWN BY: F. COHEN CHECKED BY: F. COHEN
 PROJECT NUMBER: 17098
 STORE NUMBER: RIVERSIDE HOLDING
 SHEET: C.10

APPENDIX

B



Village at Moreno Valley - South Coast AQMD Air District, Annual

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

**Village at Moreno Valley
South Coast AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	11.00	1000sqft	0.25	11,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	0.21	9,000.00	0
Fast Food Restaurant with Drive Thru	4.46	1000sqft	0.10	4,456.00	0
Convenience Market with Gas Pumps	18.00	Pump	0.06	2,541.15	0
Regional Shopping Center	22.00	1000sqft	0.51	22,000.00	0
Automobile Care Center	1.60	1000sqft	0.04	1,600.00	0
Parking Lot	439.00	Space	3.95	175,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
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 -

Construction Off-road Equipment Mitigation -

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	4,460.00	4,456.00

2.0 Emissions Summary

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2822	2.4932	2.5998	5.4500e-003	0.3057	0.1175	0.4232	0.1216	0.1100	0.2316	0.0000	484.6220	484.6220	0.0867	0.0132	490.7322
2023	0.3173	0.2763	0.3734	7.2000e-004	0.0163	0.0130	0.0293	4.3900e-003	0.0121	0.0165	0.0000	63.4276	63.4276	0.0127	1.2600e-003	64.1195
Maximum	0.3173	2.4932	2.5998	5.4500e-003	0.3057	0.1175	0.4232	0.1216	0.1100	0.2316	0.0000	484.6220	484.6220	0.0867	0.0132	490.7322

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					
2022	0.2822	2.4932	2.5998	5.4500e-003	0.2051	0.1175	0.3225	0.0712	0.1100	0.1812	0.0000	484.6216	484.6216	0.0867	0.0132	490.7318
2023	0.3173	0.2763	0.3734	7.2000e-004	0.0163	0.0130	0.0293	4.3900e-003	0.0121	0.0165	0.0000	63.4275	63.4275	0.0127	1.2600e-003	64.1194
Maximum	0.3173	2.4932	2.5998	5.4500e-003	0.2051	0.1175	0.3225	0.0712	0.1100	0.1812	0.0000	484.6216	484.6216	0.0867	0.0132	490.7318

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	31.25	0.00	22.24	40.02	0.00	20.32	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	0.8369	0.8369
2	4-1-2022	6-30-2022	0.6404	0.6404
3	7-1-2022	9-30-2022	0.6474	0.6474
4	10-1-2022	12-31-2022	0.6512	0.6512
5	1-1-2023	3-31-2023	0.5875	0.5875
		Highest	0.8369	0.8369

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	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135
Energy	0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	505.4223	505.4223	0.0252	7.3400e-003	508.2398
Mobile	4.6779	4.2079	34.6023	0.0601	6.0041	0.0488	6.0530	1.6023	0.0454	1.6477	0.0000	5,562.0836	5,562.0836	0.5268	0.3272	5,672.7429
Waste						0.0000	0.0000		0.0000	0.0000	50.6158	0.0000	50.6158	2.9913	0.0000	125.3985
Water						0.0000	0.0000		0.0000	0.0000	2.6125	23.0621	25.6745	0.2703	6.5700e-003	34.3897
Total	4.9440	4.4543	34.8157	0.0616	6.0041	0.0676	6.0717	1.6023	0.0641	1.6664	53.2283	6,090.5806	6,143.8089	3.8136	0.3411	6,340.7844

Village at Moreno Valley - South Coast AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135
Energy	0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	505.4223	505.4223	0.0252	7.3400e-003	508.2398
Mobile	4.6779	4.2079	34.6023	0.0601	6.0041	0.0488	6.0530	1.6023	0.0454	1.6477	0.0000	5,562.0836	5,562.0836	0.5268	0.3272	5,672.7429
Waste						0.0000	0.0000		0.0000	0.0000	50.6158	0.0000	50.6158	2.9913	0.0000	125.3985
Water						0.0000	0.0000		0.0000	0.0000	2.6125	23.0621	25.6745	0.2703	6.5700e-003	34.3897
Total	4.9440	4.4543	34.8157	0.0616	6.0041	0.0676	6.0717	1.6023	0.0641	1.6664	53.2283	6,090.5806	6,143.8089	3.8136	0.3411	6,340.7844

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

4	Building Construction	Building Construction	3/12/2022	1/27/2023	5	230
5	Paving	Paving	1/28/2023	2/24/2023	5	20
6	Architectural Coating	Architectural Coating	2/25/2023	3/24/2023	5	20

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 82,646; Non-Residential Outdoor: 27,549; Striped Parking Area: 10,536 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

Building Construction	Welders	1	8.00	46	0.45
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	93.00	38.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423
Total	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423

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	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423
Total	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0983	8.0600e-003	0.1064	0.0505	7.4200e-003	0.0579	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.4000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7984	0.7984	2.0000e-005	2.0000e-005	0.8054
Total	3.0000e-004	2.4000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7984	0.7984	2.0000e-005	2.0000e-005	0.8054

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					0.0398	0.0000	0.0398	0.0205	0.0000	0.0205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	0.0159	0.1654	0.0985	1.9000e-004	0.0398	8.0600e-003	0.0479	0.0205	7.4200e-003	0.0279	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.4000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7984	0.7984	2.0000e-005	2.0000e-005	0.8054
Total	3.0000e-004	2.4000e-004	3.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.7984	0.7984	2.0000e-005	2.0000e-005	0.8054

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0708	9.4100e-003	0.0802	0.0343	8.6600e-003	0.0429	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654

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

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423
Total	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423

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					0.0287	0.0000	0.0287	0.0139	0.0000	0.0139	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0287	9.4100e-003	0.0381	0.0139	8.6600e-003	0.0225	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

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

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423
Total	5.0000e-004	4.1000e-004	5.3100e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3306	1.3306	4.0000e-005	4.0000e-005	1.3423

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688

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

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1948	0.0647	7.6000e-004	0.0252	1.9400e-003	0.0271	7.2600e-003	1.8600e-003	9.1200e-003	0.0000	74.4612	74.4612	2.4900e-003	0.0108	77.7433
Worker	0.0328	0.0265	0.3460	9.4000e-004	0.1071	6.5000e-004	0.1078	0.0285	6.0000e-004	0.0291	0.0000	86.6249	86.6249	2.4000e-003	2.3400e-003	87.3810
Total	0.0400	0.2213	0.4106	1.7000e-003	0.1323	2.5900e-003	0.1349	0.0357	2.4600e-003	0.0382	0.0000	161.0861	161.0861	4.8900e-003	0.0131	165.1243

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	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1948	0.0647	7.6000e-004	0.0252	1.9400e-003	0.0271	7.2600e-003	1.8600e-003	9.1200e-003	0.0000	74.4612	74.4612	2.4900e-003	0.0108	77.7433
Worker	0.0328	0.0265	0.3460	9.4000e-004	0.1071	6.5000e-004	0.1078	0.0285	6.0000e-004	0.0291	0.0000	86.6249	86.6249	2.4000e-003	2.3400e-003	87.3810
Total	0.0400	0.2213	0.4106	1.7000e-003	0.1323	2.5900e-003	0.1349	0.0357	2.4600e-003	0.0382	0.0000	161.0861	161.0861	4.8900e-003	0.0131	165.1243

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0157	0.1439	0.1624	2.7000e-004		7.0000e-003	7.0000e-003		6.5800e-003	6.5800e-003	0.0000	23.1805	23.1805	5.5100e-003	0.0000	23.3183
Total	0.0157	0.1439	0.1624	2.7000e-004		7.0000e-003	7.0000e-003		6.5800e-003	6.5800e-003	0.0000	23.1805	23.1805	5.5100e-003	0.0000	23.3183

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

3.5 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	4.1000e-004	0.0145	5.5100e-003	7.0000e-005	2.4000e-003	8.0000e-005	2.4800e-003	6.9000e-004	8.0000e-005	7.7000e-004	0.0000	6.7629	6.7629	2.3000e-004	9.8000e-004	7.0606
Worker	2.9000e-003	2.2300e-003	0.0304	9.0000e-005	0.0102	6.0000e-005	0.0103	2.7100e-003	5.0000e-005	2.7600e-003	0.0000	7.9849	7.9849	2.1000e-004	2.1000e-004	8.0512
Total	3.3100e-003	0.0167	0.0359	1.6000e-004	0.0126	1.4000e-004	0.0127	3.4000e-003	1.3000e-004	3.5300e-003	0.0000	14.7478	14.7478	4.4000e-004	1.1900e-003	15.1118

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	0.0157	0.1439	0.1624	2.7000e-004		7.0000e-003	7.0000e-003		6.5800e-003	6.5800e-003	0.0000	23.1805	23.1805	5.5100e-003	0.0000	23.3183
Total	0.0157	0.1439	0.1624	2.7000e-004		7.0000e-003	7.0000e-003		6.5800e-003	6.5800e-003	0.0000	23.1805	23.1805	5.5100e-003	0.0000	23.3183

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

3.5 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	4.1000e-004	0.0145	5.5100e-003	7.0000e-005	2.4000e-003	8.0000e-005	2.4800e-003	6.9000e-004	8.0000e-005	7.7000e-004	0.0000	6.7629	6.7629	2.3000e-004	9.8000e-004	7.0606
Worker	2.9000e-003	2.2300e-003	0.0304	9.0000e-005	0.0102	6.0000e-005	0.0103	2.7100e-003	5.0000e-005	2.7600e-003	0.0000	7.9849	7.9849	2.1000e-004	2.1000e-004	8.0512
Total	3.3100e-003	0.0167	0.0359	1.6000e-004	0.0126	1.4000e-004	0.0127	3.4000e-003	1.3000e-004	3.5300e-003	0.0000	14.7478	14.7478	4.4000e-004	1.1900e-003	15.1118

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	5.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0155	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.8900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2879	1.2879	3.0000e-005	3.0000e-005	1.2986
Total	4.7000e-004	3.6000e-004	4.8900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2879	1.2879	3.0000e-005	3.0000e-005	1.2986

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	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	5.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0155	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888

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

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.8900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2879	1.2879	3.0000e-005	3.0000e-005	1.2986
Total	4.7000e-004	3.6000e-004	4.8900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2879	1.2879	3.0000e-005	3.0000e-005	1.2986

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2798					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.2817	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	6.2000e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6313	1.6313	4.0000e-005	4.0000e-005	1.6449
Total	5.9000e-004	4.6000e-004	6.2000e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6313	1.6313	4.0000e-005	4.0000e-005	1.6449

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	0.2798					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	0.2817	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.6000e-004	6.2000e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6313	1.6313	4.0000e-005	4.0000e-005	1.6449
Total	5.9000e-004	4.6000e-004	6.2000e-003	2.0000e-005	2.0800e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.6000e-004	0.0000	1.6313	1.6313	4.0000e-005	4.0000e-005	1.6449

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.6779	4.2079	34.6023	0.0601	6.0041	0.0488	6.0530	1.6023	0.0454	1.6477	0.0000	5,562.0836	5,562.0836	0.5268	0.3272	5,672.7429
Unmitigated	4.6779	4.2079	34.6023	0.0601	6.0041	0.0488	6.0530	1.6023	0.0454	1.6477	0.0000	5,562.0836	5,562.0836	0.5268	0.3272	5,672.7429

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	37.95	37.95	19.01	47,213	47,213
Convenience Market with Gas Pumps	5,805.00	5,805.00	5805.00	3,464,857	3,464,857
Fast Food Restaurant w/o Drive Thru	3,116.07	6,264.00	4500.00	6,815,824	6,815,824
Fast Food Restaurant with Drive Thru	2,100.44	2,747.90	2107.71	2,308,906	2,308,906
High Turnover (Sit Down Restaurant)	504.81	550.80	641.88	723,610	723,610
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	830.50	1,014.64	464.20	1,739,959	1,739,959
Strip Mall	487.52	462.44	224.73	849,310	849,310
Total	12,882.29	16,882.73	13,762.52	15,949,681	15,949,681

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Convenience Market with Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	21	65
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Convenience Market with Gas Pumps	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant w/o Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
High Turnover (Sit Down Restaurant)	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Regional Shopping Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Strip Mall	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	237.2264	237.2264	0.0200	2.4300e-003	238.4502
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	237.2264	237.2264	0.0200	2.4300e-003	238.4502
NaturalGas Mitigated	0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	268.1959	268.1959	5.1400e-003	4.9200e-003	269.7897
NaturalGas Unmitigated	0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	268.1959	268.1959	5.1400e-003	4.9200e-003	269.7897

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	51728	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7604	2.7604	5.0000e-005	5.0000e-005	2.7768
Convenience Market with Gas Pumps	5590.53	3.0000e-005	2.7000e-004	2.3000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2983	0.2983	1.0000e-005	1.0000e-005	0.3001
Fast Food Restaurant w/o Drive Thru	2.45394e+006	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003	0.0000	130.9516	130.9516	2.5100e-003	2.4000e-003	131.7298
Fast Food Restaurant with Drive Thru	1.21497e+006	6.5500e-003	0.0596	0.0500	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.8356	64.8356	1.2400e-003	1.1900e-003	65.2209
High Turnover (Sit Down Restaurant)	1.22697e+006	6.6200e-003	0.0602	0.0505	3.6000e-004		4.5700e-003	4.5700e-003		4.5700e-003	4.5700e-003	0.0000	65.4758	65.4758	1.2500e-003	1.2000e-003	65.8649
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
Regional Shopping Center	48400	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5828	2.5828	5.0000e-005	5.0000e-005	2.5982
Strip Mall	24200	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2914	1.2914	2.0000e-005	2.0000e-005	1.2991
Total		0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	268.1959	268.1959	5.1300e-003	4.9200e-003	269.7897

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

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					
Automobile Care Center	51728	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7604	2.7604	5.0000e-005	5.0000e-005	2.7768
Convenience Market with Gas Pumps	5590.53	3.0000e-005	2.7000e-004	2.3000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2983	0.2983	1.0000e-005	1.0000e-005	0.3001
Fast Food Restaurant w/o Drive Thru	2.45394e+006	0.0132	0.1203	0.1010	7.2000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003	0.0000	130.9516	130.9516	2.5100e-003	2.4000e-003	131.7298
Fast Food Restaurant with Drive Thru	1.21497e+006	6.5500e-003	0.0596	0.0500	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003	0.0000	64.8356	64.8356	1.2400e-003	1.1900e-003	65.2209
High Turnover (Sit Down Restaurant)	1.22697e+006	6.6200e-003	0.0602	0.0505	3.6000e-004		4.5700e-003	4.5700e-003		4.5700e-003	4.5700e-003	0.0000	65.4758	65.4758	1.2500e-003	1.2000e-003	65.8649
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
Regional Shopping Center	48400	2.6000e-004	2.3700e-003	1.9900e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5828	2.5828	5.0000e-005	5.0000e-005	2.5982
Strip Mall	24200	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2914	1.2914	2.0000e-005	2.0000e-005	1.2991
Total		0.0271	0.2464	0.2069	1.4800e-003		0.0187	0.0187		0.0187	0.0187	0.0000	268.1959	268.1959	5.1300e-003	4.9200e-003	269.7897

Village at Moreno Valley - South Coast AQMD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	15872	2.8148	2.4000e-004	3.0000e-005	2.8294
Convenience Market with Gas Pumps	30849.6	5.4710	4.6000e-004	6.0000e-005	5.4993
Fast Food Restaurant w/o Drive Thru	415440	73.6764	6.2200e-003	7.5000e-004	74.0565
Fast Food Restaurant with Drive Thru	205689	36.4780	3.0800e-003	3.7000e-004	36.6662
High Turnover (Sit Down Restaurant)	207720	36.8382	3.1100e-003	3.8000e-004	37.0283
Parking Lot	61460	10.8997	9.2000e-004	1.1000e-004	10.9559
Regional Shopping Center	267080	47.3655	4.0000e-003	4.8000e-004	47.6098
Strip Mall	133540	23.6827	2.0000e-003	2.4000e-004	23.8049
Total		237.2264	0.0200	2.4200e-003	238.4502

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	15872	2.8148	2.4000e-004	3.0000e-005	2.8294
Convenience Market with Gas Pumps	30849.6	5.4710	4.6000e-004	6.0000e-005	5.4993
Fast Food Restaurant w/o Drive Thru	415440	73.6764	6.2200e-003	7.5000e-004	74.0565
Fast Food Restaurant with Drive Thru	205689	36.4780	3.0800e-003	3.7000e-004	36.6662
High Turnover (Sit Down Restaurant)	207720	36.8382	3.1100e-003	3.8000e-004	37.0283
Parking Lot	61460	10.8997	9.2000e-004	1.1000e-004	10.9559
Regional Shopping Center	267080	47.3655	4.0000e-003	4.8000e-004	47.6098
Strip Mall	133540	23.6827	2.0000e-003	2.4000e-004	23.8049
Total		237.2264	0.0200	2.4200e-003	238.4502

6.0 Area Detail

6.1 Mitigation Measures Area

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135
Unmitigated	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135

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	0.0280					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135
Total	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0280					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-004	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135
Total	0.2390	6.0000e-005	6.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0127	0.0127	3.0000e-005	0.0000	0.0135

7.0 Water Detail

7.1 Mitigation Measures Water

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	25.6745	0.2703	6.5700e-003	34.3897
Unmitigated	25.6745	0.2703	6.5700e-003	34.3897

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.15053 / 0.0922602	0.5771	4.9500e-003	1.2000e-004	0.7370
Convenience Market with Gas Pumps	0.188229 / 0.115366	0.7217	6.1900e-003	1.5000e-004	0.9216
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	7.5186	0.0896	2.1700e-003	10.4046
Fast Food Restaurant with Drive Thru	1.35376 / 0.0864102	3.7259	0.0444	1.0800e-003	5.1561
High Turnover (Sit Down Restaurant)	1.3659 / 0.0871852	3.7593	0.0448	1.0800e-003	5.2023
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.6296 / 0.998784	6.2480	0.0536	1.3100e-003	7.9787
Strip Mall	0.814798 / 0.499392	3.1240	0.0268	6.6000e-004	3.9894
Total		25.6745	0.2703	6.5700e-003	34.3897

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.15053 / 0.0922602	0.5771	4.9500e-003	1.2000e-004	0.7370
Convenience Market with Gas Pumps	0.188229 / 0.115366	0.7217	6.1900e-003	1.5000e-004	0.9216
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	7.5186	0.0896	2.1700e-003	10.4046
Fast Food Restaurant with Drive Thru	1.35376 / 0.0864102	3.7259	0.0444	1.0800e-003	5.1561
High Turnover (Sit Down Restaurant)	1.3659 / 0.0871852	3.7593	0.0448	1.0800e-003	5.2023
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.6296 / 0.998784	6.2480	0.0536	1.3100e-003	7.9787
Strip Mall	0.814798 / 0.499392	3.1240	0.0268	6.6000e-004	3.9894
Total		25.6745	0.2703	6.5700e-003	34.3897

8.0 Waste Detail

8.1 Mitigation Measures Waste

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	50.6158	2.9913	0.0000	125.3985
Unmitigated	50.6158	2.9913	0.0000	125.3985

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	6.11	1.2403	0.0733	0.0000	3.0727
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
Fast Food Restaurant with Drive Thru	51.37	10.4277	0.6163	0.0000	25.8341
High Turnover (Sit Down Restaurant)	53.55	10.8702	0.6424	0.0000	26.9304
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	23.1	4.6891	0.2771	0.0000	11.6170
Strip Mall	11.55	2.3446	0.1386	0.0000	5.8085
Total		50.6158	2.9913	0.0000	125.3985

Village at Moreno Valley - South Coast AQMD Air District, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	6.11	1.2403	0.0733	0.0000	3.0727
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
Fast Food Restaurant with Drive Thru	51.37	10.4277	0.6163	0.0000	25.8341
High Turnover (Sit Down Restaurant)	53.55	10.8702	0.6424	0.0000	26.9304
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	23.1	4.6891	0.2771	0.0000	11.6170
Strip Mall	11.55	2.3446	0.1386	0.0000	5.8085
Total		50.6158	2.9913	0.0000	125.3985

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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Village at Moreno Valley - South Coast AQMD Air District, Annual

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

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

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

**Village at Moreno Valley
South Coast AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	11.00	1000sqft	0.25	11,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	0.21	9,000.00	0
Fast Food Restaurant with Drive Thru	4.46	1000sqft	0.10	4,456.00	0
Convenience Market with Gas Pumps	18.00	Pump	0.06	2,541.15	0
Regional Shopping Center	22.00	1000sqft	0.51	22,000.00	0
Automobile Care Center	1.60	1000sqft	0.04	1,600.00	0
Parking Lot	439.00	Space	3.95	175,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
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 -

Construction Off-road Equipment Mitigation -

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	4,460.00	4,456.00

2.0 Emissions Summary

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2321	33.1271	21.1658	0.0436	19.8582	1.6138	21.4720	10.1558	1.4847	11.6405	0.0000	4,286.832 1	4,286.832 1	1.1970	0.1361	4,343.952 5
2023	28.2317	15.9635	20.0494	0.0430	1.2828	0.7136	1.9964	0.3458	0.6715	1.0172	0.0000	4,220.448 5	4,220.448 5	0.7176	0.1289	4,275.229 0
Maximum	28.2317	33.1271	21.1658	0.0436	19.8582	1.6138	21.4720	10.1558	1.4847	11.6405	0.0000	4,286.832 1	4,286.832 1	1.1970	0.1361	4,343.952 5

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					
2022	3.2321	33.1271	21.1658	0.0436	8.1623	1.6138	9.7761	4.1449	1.4847	5.6295	0.0000	4,286.832 1	4,286.832 1	1.1970	0.1361	4,343.952 5
2023	28.2317	15.9635	20.0494	0.0430	1.2828	0.7136	1.9964	0.3458	0.6715	1.0172	0.0000	4,220.448 5	4,220.448 5	0.7176	0.1289	4,275.229 0
Maximum	28.2317	33.1271	21.1658	0.0436	8.1623	1.6138	9.7761	4.1449	1.4847	5.6295	0.0000	4,286.832 1	4,286.832 1	1.1970	0.1361	4,343.952 5

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.32	0.00	49.84	57.24	0.00	47.49	0.00	0.00	0.00	0.00	0.00	0.00

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Energy	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
Mobile	35.6450	28.2016	248.8889	0.4646	45.8229	0.3601	46.1830	12.2106	0.3345	12.5451		47,347.7824	47,347.7824	3.9633	2.4989	48,191.5481
Total	37.1047	29.5520	250.0749	0.4727	45.8229	0.4629	46.2858	12.2106	0.4373	12.6479		48,967.8138	48,967.8138	3.9946	2.5286	49,821.2132

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	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Energy	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
Mobile	35.6450	28.2016	248.8889	0.4646	45.8229	0.3601	46.1830	12.2106	0.3345	12.5451		47,347.7824	47,347.7824	3.9633	2.4989	48,191.5481
Total	37.1047	29.5520	250.0749	0.4727	45.8229	0.4629	46.2858	12.2106	0.4373	12.6479		48,967.8138	48,967.8138	3.9946	2.5286	49,821.2132

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	
4	Building Construction	Building Construction	3/12/2022	1/27/2023	5	230	
5	Paving	Paving	1/28/2023	2/24/2023	5	20	
6	Architectural Coating	Architectural Coating	2/25/2023	3/24/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 82,646; Non-Residential Outdoor: 27,549; Striped Parking Area: 10,536 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	93.00	38.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736
Total	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736
Total	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883
Total	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.3 Site Preparation - 2022

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					7.9611	0.0000	7.9611	4.0915	0.0000	4.0915			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.9611	1.6126	9.5737	4.0915	1.4836	5.5751	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883
Total	0.0620	0.0436	0.6861	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		184.0558	184.0558	4.8100e-003	4.4000e-003	185.4883

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736
Total	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.4 Grading - 2022

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					2.8685	0.0000	2.8685	1.3870	0.0000	1.3870			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.8685	0.9409	3.8093	1.3870	0.8656	2.2526	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736
Total	0.0516	0.0363	0.5718	1.5200e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		153.3798	153.3798	4.0100e-003	3.6700e-003	154.5736

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

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	0.0693	1.7682	0.6062	7.2700e-003	0.2433	0.0185	0.2618	0.0701	0.0177	0.0877		781.5435	781.5435	0.0262	0.1133	815.9639
Worker	0.3202	0.2252	3.5449	9.4100e-003	1.0395	6.2000e-003	1.0457	0.2757	5.7100e-003	0.2814		950.9550	950.9550	0.0249	0.0228	958.3565
Total	0.3895	1.9934	4.1511	0.0167	1.2828	0.0247	1.3075	0.3458	0.0234	0.3691		1,732.4985	1,732.4985	0.0511	0.1361	1,774.3203

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0693	1.7682	0.6062	7.2700e-003	0.2433	0.0185	0.2618	0.0701	0.0177	0.0877		781.5435	781.5435	0.0262	0.1133	815.9639
Worker	0.3202	0.2252	3.5449	9.4100e-003	1.0395	6.2000e-003	1.0457	0.2757	5.7100e-003	0.2814		950.9550	950.9550	0.0249	0.0228	958.3565
Total	0.3895	1.9934	4.1511	0.0167	1.2828	0.0247	1.3075	0.3458	0.0234	0.3691		1,732.4985	1,732.4985	0.0511	0.1361	1,774.3203

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
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	0.0420	1.3794	0.5431	6.9200e-003	0.2433	8.0300e-003	0.2514	0.0701	7.6800e-003	0.0777		744.9175	744.9175	0.0250	0.1078	777.6800
Worker	0.2969	0.1992	3.2623	9.1100e-003	1.0395	5.8400e-003	1.0454	0.2757	5.3700e-003	0.2811		920.3211	920.3211	0.0223	0.0210	927.1429
Total	0.3389	1.5786	3.8054	0.0160	1.2828	0.0139	1.2967	0.3458	0.0131	0.3588		1,665.2386	1,665.2386	0.0474	0.1289	1,704.8229

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.5 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0420	1.3794	0.5431	6.9200e-003	0.2433	8.0300e-003	0.2514	0.0701	7.6800e-003	0.0777		744.9175	744.9175	0.0250	0.1078	777.6800
Worker	0.2969	0.1992	3.2623	9.1100e-003	1.0395	5.8400e-003	1.0454	0.2757	5.3700e-003	0.2811		920.3211	920.3211	0.0223	0.0210	927.1429
Total	0.3389	1.5786	3.8054	0.0160	1.2828	0.0139	1.2967	0.3458	0.0131	0.3588		1,665.2386	1,665.2386	0.0474	0.1289	1,704.8229

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5502	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0479	0.0321	0.5262	1.4700e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		148.4389	148.4389	3.6000e-003	3.3900e-003	149.5392
Total	0.0479	0.0321	0.5262	1.4700e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		148.4389	148.4389	3.6000e-003	3.3900e-003	149.5392

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.6 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5502	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0479	0.0321	0.5262	1.4700e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		148.4389	148.4389	3.6000e-003	3.3900e-003	149.5392
Total	0.0479	0.0321	0.5262	1.4700e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		148.4389	148.4389	3.6000e-003	3.3900e-003	149.5392

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.1711	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0607	0.0407	0.6665	1.8600e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		188.0226	188.0226	4.5600e-003	4.2900e-003	189.4163
Total	0.0607	0.0407	0.6665	1.8600e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		188.0226	188.0226	4.5600e-003	4.2900e-003	189.4163

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

3.7 Architectural Coating - 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					
Archit. Coating	27.9794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.1711	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0607	0.0407	0.6665	1.8600e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		188.0226	188.0226	4.5600e-003	4.2900e-003	189.4163
Total	0.0607	0.0407	0.6665	1.8600e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		188.0226	188.0226	4.5600e-003	4.2900e-003	189.4163

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	35.6450	28.2016	248.8889	0.4646	45.8229	0.3601	46.1830	12.2106	0.3345	12.5451		47,347.78 24	47,347.78 24	3.9633	2.4989	48,191.54 81
Unmitigated	35.6450	28.2016	248.8889	0.4646	45.8229	0.3601	46.1830	12.2106	0.3345	12.5451		47,347.78 24	47,347.78 24	3.9633	2.4989	48,191.54 81

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	37.95	37.95	19.01	47,213	47,213
Convenience Market with Gas Pumps	5,805.00	5,805.00	5805.00	3,464,857	3,464,857
Fast Food Restaurant w/o Drive Thru	3,116.07	6,264.00	4500.00	6,815,824	6,815,824
Fast Food Restaurant with Drive Thru	2,100.44	2,747.90	2107.71	2,308,906	2,308,906
High Turnover (Sit Down Restaurant)	504.81	550.80	641.88	723,610	723,610
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	830.50	1,014.64	464.20	1,739,959	1,739,959
Strip Mall	487.52	462.44	224.73	849,310	849,310
Total	12,882.29	16,882.73	13,762.52	15,949,681	15,949,681

4.3 Trip Type Information

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Convenience Market with Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	21	65
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Convenience Market with Gas Pumps	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant w/o Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
High Turnover (Sit Down Restaurant)	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Regional Shopping Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Strip Mall	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
NaturalGas Unmitigated	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	141.721	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6730	16.6730	3.2000e-004	3.1000e-004	16.7721
Convenience Market with Gas Pumps	15.3165	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.8019	1.8019	3.0000e-005	3.0000e-005	1.8127
Fast Food Restaurant w/o Drive Thru	6723.12	0.0725	0.6591	0.5537	3.9500e-003		0.0501	0.0501		0.0501	0.0501		790.9557	790.9557	0.0152	0.0145	795.6559
Fast Food Restaurant with Drive Thru	3328.69	0.0359	0.3263	0.2741	1.9600e-003		0.0248	0.0248		0.0248	0.0248		391.6110	391.6110	7.5100e-003	7.1800e-003	393.9381
High Turnover (Sit Down Restaurant)	3361.56	0.0363	0.3296	0.2768	1.9800e-003		0.0251	0.0251		0.0251	0.0251		395.4778	395.4778	7.5800e-003	7.2500e-003	397.8280
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
Regional Shopping Center	132.603	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6003	15.6003	3.0000e-004	2.9000e-004	15.6930
Strip Mall	66.3014	7.2000e-004	6.5000e-003	5.4600e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.8002	7.8002	1.5000e-004	1.4000e-004	7.8465
Total		0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.141721	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6730	16.6730	3.2000e-004	3.1000e-004	16.7721
Convenience Market with Gas Pumps	0.0153165	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.8019	1.8019	3.0000e-005	3.0000e-005	1.8127
Fast Food Restaurant w/o Drive Thru	6.72312	0.0725	0.6591	0.5537	3.9500e-003		0.0501	0.0501		0.0501	0.0501		790.9557	790.9557	0.0152	0.0145	795.6559
Fast Food Restaurant with Drive Thru	3.32869	0.0359	0.3263	0.2741	1.9600e-003		0.0248	0.0248		0.0248	0.0248		391.6110	391.6110	7.5100e-003	7.1800e-003	393.9381
High Turnover (Sit Down Restaurant)	3.36156	0.0363	0.3296	0.2768	1.9800e-003		0.0251	0.0251		0.0251	0.0251		395.4778	395.4778	7.5800e-003	7.2500e-003	397.8280
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
Regional Shopping Center	0.132603	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6003	15.6003	3.0000e-004	2.9000e-004	15.6930
Strip Mall	0.0663014	7.2000e-004	6.5000e-003	5.4600e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.8002	7.8002	1.5000e-004	1.4000e-004	7.8465
Total		0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

6.0 Area Detail

6.1 Mitigation Measures Area

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Unmitigated	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

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	0.1533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8200e-003	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Total	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8200e-003	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Total	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

7.0 Water Detail

7.1 Mitigation Measures Water

Village at Moreno Valley - South Coast AQMD Air District, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

**Village at Moreno Valley
South Coast AQMD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	4.50	1000sqft	0.10	4,500.00	0
Strip Mall	11.00	1000sqft	0.25	11,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	0.21	9,000.00	0
Fast Food Restaurant with Drive Thru	4.46	1000sqft	0.10	4,456.00	0
Convenience Market with Gas Pumps	18.00	Pump	0.06	2,541.15	0
Regional Shopping Center	22.00	1000sqft	0.51	22,000.00	0
Automobile Care Center	1.60	1000sqft	0.04	1,600.00	0
Parking Lot	439.00	Space	3.95	175,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
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 -

Construction Off-road Equipment Mitigation -

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	4,460.00	4,456.00

2.0 Emissions Summary

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.2353	33.1312	21.1109	0.0431	19.8582	1.6138	21.4720	10.1558	1.4847	11.6405	0.0000	4,231.930 0	4,231.930 0	1.1970	0.1376	4,289.513 7
2023	28.2351	16.0506	19.7569	0.0425	1.2828	0.7136	1.9965	0.3458	0.6715	1.0173	0.0000	4,168.388 6	4,168.388 6	0.7176	0.1304	4,223.640 1
Maximum	28.2351	33.1312	21.1109	0.0431	19.8582	1.6138	21.4720	10.1558	1.4847	11.6405	0.0000	4,231.930 0	4,231.930 0	1.1970	0.1376	4,289.513 7

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					
2022	3.2353	33.1312	21.1109	0.0431	8.1623	1.6138	9.7761	4.1449	1.4847	5.6295	0.0000	4,231.930 0	4,231.930 0	1.1970	0.1376	4,289.513 7
2023	28.2351	16.0506	19.7569	0.0425	1.2828	0.7136	1.9965	0.3458	0.6715	1.0173	0.0000	4,168.388 6	4,168.388 6	0.7176	0.1304	4,223.640 1
Maximum	28.2351	33.1312	21.1109	0.0431	8.1623	1.6138	9.7761	4.1449	1.4847	5.6295	0.0000	4,231.930 0	4,231.930 0	1.1970	0.1376	4,289.513 7

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	55.32	0.00	49.84	57.24	0.00	47.49	0.00	0.00	0.00	0.00	0.00	0.00

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Energy	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
Mobile	33.7282	30.3228	250.4592	0.4438	45.8229	0.3605	46.1834	12.2106	0.3349	12.5455		45,241.9243	45,241.9243	4.2031	2.6088	46,124.4219
Total	35.1879	31.6732	251.6452	0.4519	45.8229	0.4633	46.2862	12.2106	0.4377	12.6483		46,861.9557	46,861.9557	4.2345	2.6385	47,754.0870

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	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Energy	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
Mobile	33.7282	30.3228	250.4592	0.4438	45.8229	0.3605	46.1834	12.2106	0.3349	12.5455		45,241.9243	45,241.9243	4.2031	2.6088	46,124.4219
Total	35.1879	31.6732	251.6452	0.4519	45.8229	0.4633	46.2862	12.2106	0.4377	12.6483		46,861.9557	46,861.9557	4.2345	2.6385	47,754.0870

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/28/2022	5	20	
2	Site Preparation	Site Preparation	1/29/2022	2/11/2022	5	10	
3	Grading	Grading	2/12/2022	3/11/2022	5	20	
4	Building Construction	Building Construction	3/12/2022	1/27/2023	5	230	
5	Paving	Paving	1/28/2023	2/24/2023	5	20	
6	Architectural Coating	Architectural Coating	2/25/2023	3/24/2023	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 3.95

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 82,646; Non-Residential Outdoor: 27,549; Striped Parking Area: 10,536 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	93.00	38.00	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	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233
Total	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233
Total	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680
Total	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.3 Site Preparation - 2022

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					7.9611	0.0000	7.9611	4.0915	0.0000	4.0915			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	7.9611	1.6126	9.5737	4.0915	1.4836	5.5751	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680
Total	0.0652	0.0477	0.6202	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1000e-003	0.0545		173.3539	173.3539	4.8700e-003	4.6700e-003	174.8680

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233
Total	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.4 Grading - 2022

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					2.8685	0.0000	2.8685	1.3870	0.0000	1.3870			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	2.8685	0.9409	3.8093	1.3870	0.8656	2.2526	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233
Total	0.0543	0.0397	0.5169	1.4300e-003	0.1677	1.0000e-003	0.1687	0.0445	9.2000e-004	0.0454		144.4616	144.4616	4.0600e-003	3.8900e-003	145.7233

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

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

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	0.0681	1.8454	0.6280	7.2700e-003	0.2433	0.0186	0.2619	0.0701	0.0178	0.0878		781.9348	781.9348	0.0261	0.1135	816.3968
Worker	0.3369	0.2464	3.2046	8.8600e-003	1.0395	6.2000e-003	1.0457	0.2757	5.7100e-003	0.2814		895.6616	895.6616	0.0252	0.0241	903.4847
Total	0.4049	2.0918	3.8326	0.0161	1.2828	0.0248	1.3076	0.3458	0.0235	0.3692		1,677.5964	1,677.5964	0.0513	0.1376	1,719.8815

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0681	1.8454	0.6280	7.2700e-003	0.2433	0.0186	0.2619	0.0701	0.0178	0.0878		781.9348	781.9348	0.0261	0.1135	816.3968
Worker	0.3369	0.2464	3.2046	8.8600e-003	1.0395	6.2000e-003	1.0457	0.2757	5.7100e-003	0.2814		895.6616	895.6616	0.0252	0.0241	903.4847
Total	0.4049	2.0918	3.8326	0.0161	1.2828	0.0248	1.3076	0.3458	0.0235	0.3692		1,677.5964	1,677.5964	0.0513	0.1376	1,719.8815

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
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	0.0402	1.4478	0.5606	6.9300e-003	0.2433	8.0700e-003	0.2514	0.0701	7.7200e-003	0.0778		746.2643	746.2643	0.0249	0.1081	779.1101
Worker	0.3134	0.2179	2.9523	8.5800e-003	1.0395	5.8400e-003	1.0454	0.2757	5.3700e-003	0.2811		866.9143	866.9143	0.0226	0.0223	874.1240
Total	0.3536	1.6657	3.5129	0.0155	1.2828	0.0139	1.2968	0.3458	0.0131	0.3588		1,613.1787	1,613.1787	0.0475	0.1304	1,653.2341

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.5 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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0402	1.4478	0.5606	6.9300e-003	0.2433	8.0700e-003	0.2514	0.0701	7.7200e-003	0.0778		746.2643	746.2643	0.0249	0.1081	779.1101
Worker	0.3134	0.2179	2.9523	8.5800e-003	1.0395	5.8400e-003	1.0454	0.2757	5.3700e-003	0.2811		866.9143	866.9143	0.0226	0.0223	874.1240
Total	0.3536	1.6657	3.5129	0.0155	1.2828	0.0139	1.2968	0.3458	0.0131	0.3588		1,613.1787	1,613.1787	0.0475	0.1304	1,653.2341

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5502	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0506	0.0351	0.4762	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.8249	139.8249	3.6500e-003	3.6000e-003	140.9878
Total	0.0506	0.0351	0.4762	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.8249	139.8249	3.6500e-003	3.6000e-003	140.9878

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.6 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.5175					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5502	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 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	0.0000	0.0000	0.0000	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	0.0506	0.0351	0.4762	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.8249	139.8249	3.6500e-003	3.6000e-003	140.9878
Total	0.0506	0.0351	0.4762	1.3800e-003	0.1677	9.4000e-004	0.1686	0.0445	8.7000e-004	0.0453		139.8249	139.8249	3.6500e-003	3.6000e-003	140.9878

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	27.9794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	28.1711	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0445	0.6032	1.7500e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		177.1115	177.1115	4.6200e-003	4.5600e-003	178.5845
Total	0.0640	0.0445	0.6032	1.7500e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		177.1115	177.1115	4.6200e-003	4.5600e-003	178.5845

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

3.7 Architectural Coating - 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					
Archit. Coating	27.9794					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	28.1711	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0640	0.0445	0.6032	1.7500e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		177.1115	177.1115	4.6200e-003	4.5600e-003	178.5845
Total	0.0640	0.0445	0.6032	1.7500e-003	0.2124	1.1900e-003	0.2136	0.0563	1.1000e-003	0.0574		177.1115	177.1115	4.6200e-003	4.5600e-003	178.5845

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	33.7282	30.3228	250.4592	0.4438	45.8229	0.3605	46.1834	12.2106	0.3349	12.5455		45,241.92 43	45,241.92 43	4.2031	2.6088	46,124.42 19
Unmitigated	33.7282	30.3228	250.4592	0.4438	45.8229	0.3605	46.1834	12.2106	0.3349	12.5455		45,241.92 43	45,241.92 43	4.2031	2.6088	46,124.42 19

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	37.95	37.95	19.01	47,213	47,213
Convenience Market with Gas Pumps	5,805.00	5,805.00	5805.00	3,464,857	3,464,857
Fast Food Restaurant w/o Drive Thru	3,116.07	6,264.00	4500.00	6,815,824	6,815,824
Fast Food Restaurant with Drive Thru	2,100.44	2,747.90	2107.71	2,308,906	2,308,906
High Turnover (Sit Down Restaurant)	504.81	550.80	641.88	723,610	723,610
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	830.50	1,014.64	464.20	1,739,959	1,739,959
Strip Mall	487.52	462.44	224.73	849,310	849,310
Total	12,882.29	16,882.73	13,762.52	15,949,681	15,949,681

4.3 Trip Type Information

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Convenience Market with Gas	16.60	8.40	6.90	0.80	80.20	19.00	14	21	65
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Convenience Market with Gas Pumps	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant w/o Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Fast Food Restaurant with Drive Thru	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
High Turnover (Sit Down Restaurant)	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Parking Lot	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Regional Shopping Center	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791
Strip Mall	0.543139	0.060749	0.184760	0.130258	0.023830	0.006353	0.011718	0.009137	0.000812	0.000509	0.024193	0.000750	0.003791

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463
NaturalGas Unmitigated	0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	141.721	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6730	16.6730	3.2000e-004	3.1000e-004	16.7721
Convenience Market with Gas Pumps	15.3165	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.8019	1.8019	3.0000e-005	3.0000e-005	1.8127
Fast Food Restaurant w/o Drive Thru	6723.12	0.0725	0.6591	0.5537	3.9500e-003		0.0501	0.0501		0.0501	0.0501		790.9557	790.9557	0.0152	0.0145	795.6559
Fast Food Restaurant with Drive Thru	3328.69	0.0359	0.3263	0.2741	1.9600e-003		0.0248	0.0248		0.0248	0.0248		391.6110	391.6110	7.5100e-003	7.1800e-003	393.9381
High Turnover (Sit Down Restaurant)	3361.56	0.0363	0.3296	0.2768	1.9800e-003		0.0251	0.0251		0.0251	0.0251		395.4778	395.4778	7.5800e-003	7.2500e-003	397.8280
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
Regional Shopping Center	132.603	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6003	15.6003	3.0000e-004	2.9000e-004	15.6930
Strip Mall	66.3014	7.2000e-004	6.5000e-003	5.4600e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.8002	7.8002	1.5000e-004	1.4000e-004	7.8465
Total		0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	0.141721	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6730	16.6730	3.2000e-004	3.1000e-004	16.7721
Convenience Market with Gas Pumps	0.0153165	1.7000e-004	1.5000e-003	1.2600e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		1.8019	1.8019	3.0000e-005	3.0000e-005	1.8127
Fast Food Restaurant w/o Drive Thru	6.72312	0.0725	0.6591	0.5537	3.9500e-003		0.0501	0.0501		0.0501	0.0501		790.9557	790.9557	0.0152	0.0145	795.6559
Fast Food Restaurant with Drive Thru	3.32869	0.0359	0.3263	0.2741	1.9600e-003		0.0248	0.0248		0.0248	0.0248		391.6110	391.6110	7.5100e-003	7.1800e-003	393.9381
High Turnover (Sit Down Restaurant)	3.36156	0.0363	0.3296	0.2768	1.9800e-003		0.0251	0.0251		0.0251	0.0251		395.4778	395.4778	7.5800e-003	7.2500e-003	397.8280
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
Regional Shopping Center	0.132603	1.4300e-003	0.0130	0.0109	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6003	15.6003	3.0000e-004	2.9000e-004	15.6930
Strip Mall	0.0663014	7.2000e-004	6.5000e-003	5.4600e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.8002	7.8002	1.5000e-004	1.4000e-004	7.8465
Total		0.1485	1.3499	1.1339	8.1000e-003		0.1026	0.1026		0.1026	0.1026		1,619.9199	1,619.9199	0.0311	0.0297	1,629.5463

6.0 Area Detail

6.1 Mitigation Measures Area

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Unmitigated	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

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	0.1533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8200e-003	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Total	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1533					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8200e-003	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188
Total	1.3113	4.7000e-004	0.0520	0.0000		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004		0.1115	0.1115	2.9000e-004		0.1188

7.0 Water Detail

7.1 Mitigation Measures Water

Village at Moreno Valley - South Coast AQMD Air District, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Village at Moreno Valley

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

South Coast AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Village at Moreno Valley

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Village at Moreno Valley

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	1.92000E-003	1.30300E-002	1.81100E-002	3.00000E-005	7.10000E-004	7.10000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.50000E-004	0.00000E+000	2.55707E+000
Concrete/Industrial Saws	3.58000E-003	2.80100E-002	3.66500E-002	6.00000E-005	1.50000E-003	1.50000E-003	0.00000E+000	5.37656E+000	5.37656E+000	2.90000E-004	0.00000E+000	5.38390E+000
Cranes	3.73400E-002	4.17820E-001	1.89910E-001	5.80000E-004	1.73600E-002	1.59700E-002	0.00000E+000	5.10130E+001	5.10130E+001	1.65000E-002	0.00000E+000	5.14255E+001
Excavators	8.10000E-003	7.10800E-002	1.30210E-001	2.10000E-004	3.44000E-003	3.16000E-003	0.00000E+000	1.81443E+001	1.81443E+001	5.87000E-003	0.00000E+000	1.82910E+001
Forklifts	3.88600E-002	3.61080E-001	3.97770E-001	5.30000E-004	2.37900E-002	2.18900E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.77100E-002	3.34620E-001	4.22670E-001	7.60000E-004	1.67100E-002	1.67100E-002	0.00000E+000	6.49989E+001	6.49989E+001	3.07000E-003	0.00000E+000	6.50756E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25932E+000	8.25932E+000	2.67000E-003	0.00000E+000	8.32611E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15709E+000	7.15709E+000	2.31000E-003	0.00000E+000	7.21496E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64773E+000
Rubber Tired Dozers	3.76700E-002	3.95710E-001	1.61190E-001	3.80000E-004	1.87800E-002	1.72800E-002	0.00000E+000	3.37623E+001	3.37623E+001	1.09200E-002	0.00000E+000	3.40353E+001
Tractors/Loaders/Backhoes	5.76100E-002	5.85940E-001	7.87300E-001	1.09000E-003	3.13400E-002	2.88300E-002	0.00000E+000	9.61682E+001	9.61682E+001	3.11000E-002	0.00000E+000	9.69458E+001
Welders	3.16000E-002	1.67810E-001	1.94840E-001	2.90000E-004	7.26000E-003	7.26000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.57000E-003	0.00000E+000	2.17096E+001

Village at Moreno Valley

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	1.92000E-003	1.30300E-002	1.81100E-002	3.00000E-005	7.10000E-004	7.10000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.50000E-004	0.00000E+000	2.55707E+000
Concrete/Industrial Saws	3.58000E-003	2.80100E-002	3.66500E-002	6.00000E-005	1.50000E-003	1.50000E-003	0.00000E+000	5.37656E+000	5.37656E+000	2.90000E-004	0.00000E+000	5.38389E+000
Cranes	3.73400E-002	4.17820E-001	1.89910E-001	5.80000E-004	1.73600E-002	1.59700E-002	0.00000E+000	5.10129E+001	5.10129E+001	1.65000E-002	0.00000E+000	5.14254E+001
Excavators	8.10000E-003	7.10800E-002	1.30210E-001	2.10000E-004	3.44000E-003	3.16000E-003	0.00000E+000	1.81442E+001	1.81442E+001	5.87000E-003	0.00000E+000	1.82909E+001
Forklifts	3.88600E-002	3.61080E-001	3.97770E-001	5.30000E-004	2.37900E-002	2.18900E-002	0.00000E+000	4.63305E+001	4.63305E+001	1.49800E-002	0.00000E+000	4.67051E+001
Generator Sets	3.77100E-002	3.34620E-001	4.22670E-001	7.60000E-004	1.67100E-002	1.67100E-002	0.00000E+000	6.49988E+001	6.49988E+001	3.07000E-003	0.00000E+000	6.50755E+001
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25931E+000	8.25931E+000	2.67000E-003	0.00000E+000	8.32610E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15708E+000	7.15708E+000	2.31000E-003	0.00000E+000	7.21495E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64772E+000
Rubber Tired Dozers	3.76700E-002	3.95710E-001	1.61190E-001	3.80000E-004	1.87800E-002	1.72800E-002	0.00000E+000	3.37623E+001	3.37623E+001	1.09200E-002	0.00000E+000	3.40353E+001
Tractors/Loaders/Backhoes	5.76100E-002	5.85940E-001	7.87300E-001	1.09000E-003	3.13400E-002	2.88300E-002	0.00000E+000	9.61681E+001	9.61681E+001	3.11000E-002	0.00000E+000	9.69457E+001
Welders	3.16000E-002	1.67810E-001	1.94840E-001	2.90000E-004	7.26000E-003	7.26000E-003	0.00000E+000	2.16454E+001	2.16454E+001	2.57000E-003	0.00000E+000	2.17096E+001

Village at Moreno Valley

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85739E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17617E-006	1.17617E-006	0.00000E+000	0.00000E+000	1.36119E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10228E-006	1.10228E-006	0.00000E+000	0.00000E+000	1.09344E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07920E-006	1.07920E-006	0.00000E+000	0.00000E+000	1.28466E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.07567E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15159E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18475E-006	1.18475E-006	0.00000E+000	0.00000E+000	1.17525E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24781E-006	1.24781E-006	0.00000E+000	0.00000E+000	1.23781E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	1.38188E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	15.00	PM2.5 Reduction	15.00	
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Village at Moreno Valley

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

Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	10.00	PM2.5 Reduction	10.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.14	0.04	0.14	0.04	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.07	0.03	0.03	0.01	0.60	0.60
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.10	0.05	0.04	0.02	0.59	0.59
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Village at Moreno Valley

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.14	0.38		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Village at Moreno Valley

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

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

Village at Moreno Valley

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

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

Village at Moreno Valley

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Village at Moreno Valley

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	