

APPENDIX 9.5

ENERGY REPORT

APPENDIX 9.5.1

ENERGY ANALYSIS



Menifee Commerce Center

ENERGY ANALYSIS

CITY OF MENIFEE

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14616-03 EA Report

TABLE OF CONTENTS

TABLE OF CONTENTSI

APPENDICESIII

LIST OF EXHIBITSIII

LIST OF TABLESIII

LIST OF ABBREVIATED TERMS..... IV

EXECUTIVE SUMMARY 1

 ES.1 Summary of Findings..... 1

 ES.2 Project Requirements 1

1 INTRODUCTION.....3

 1.1 Site Location..... 3

 1.2 Project Description..... 3

2 EXISTING CONDITIONS7

 2.1 Overview 7

 2.2 Electricity..... 9

 2.3 Natural Gas 11

 2.4 Transportation Energy Resources 14

3 REGULATORY BACKGROUND17

 3.1 Federal Regulations..... 17

 3.2 California Regulations 17

4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES21

 4.1 Evaluation Criteria..... 21

 4.2 Methodology..... 21

 4.3 Construction Energy Demands 21

BUILDING CONSTRUCTION31

 260 31

 229 31

 7.3 31

 434,64231

 10.7731

 40,33931

BUILDING CONSTRUCTION31

 260 31

 287 31

 7.3 31

 544,72631

 7.44 31

 73,25831

 4.4 Operational Energy Demands 33

 4.5 Summary 36

5 CONCLUSIONS.....40

6 REFERENCES.....43

7 CERTIFICATIONS46



APPENDICES

- APPENDIX 4.1: CALEEMOD PROJECT CONSTRUCTION MODEL OUTPUTS
- APPENDIX 4.2: CALEEMOD PROJECT OPERATIONAL MODEL OUTPUTS
- APPENDIX 4.3: EMFAC2017

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP.....4
 EXHIBIT 1-B: SITE PLAN.....5

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS1
 TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2019).....8
 TABLE 2-2: SCE 2019 POWER CONTENT MIX.....11
 TABLE 4-1: CONSTRUCTION DURATION.....22
 TABLE 4-2: CONSTRUCTION POWER COST23
 TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE23
 TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)24
 TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES.....26
 TABLE 4-6: CONSTRUCTION TRIPS AND VMT28
 TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDA29
 TABLE 4-8: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDT1.....30
 TABLE 4-9: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDT2.....30
 TABLE 4-10: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES – MHDT31
 TABLE 4-11: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES – HHDT31
 TABLE 4-12: CONSTRUCTION HAULING FUEL CONSUMPTION ESTIMATES – HHDT32
 TABLE 4-13: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (SCENARIO 1).....34
 TABLE 4-14: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (SCENARIO 2).....34
 TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY35
 TABLE 4-16: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY35

LIST OF ABBREVIATED TERMS

%	Percent
(1)	Reference
AQIA	<i>Menifee Commerce Center Air Quality Impact Analysis</i>
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of Menifee
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EPA	Environmental Protection Agency
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GWh	Gigawatt Hour
HHDT	Heavy-Heavy Duty Trucks
hp-hr-gal	Horsepower Hours Per Gallon
IEPR	Integrated Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Thousand-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1/LHDT2	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MMcfd	Million Cubic Feet Per Day
mpg	Miles Per Gallon

MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Menifee Commerce Center
PV	Photovoltaic
PVCC SP	Perris Valley Commerce Center Specific Plan
SCAB	South Coast Air Basin
SCE	Southern California Edison
SDAB	San Diego Air Basin
sf	Square Feet
SoCalGas	Southern California Gas
TEA-21	Transportation Equity Act for the 21 st Century
U.S.	United States
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Menifee Commerce Center Energy Analysis* is summarized below based on the significance criteria in Section 5 of this report consistent with Appendix G of the 2020 California Environmental Quality Act (CEQA) Statute and Guidelines (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	5.0	<i>Less Than Significant</i>	<i>n/a</i>
Energy Impact #2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	5.0	<i>Less Than Significant</i>	<i>n/a</i>

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the federal and state agencies that regulate energy use and consumption through various means and programs. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of energy usage include:

- Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)
- The Transportation Equity Act for the 21st Century (TEA-21)
- Integrated Energy Policy Report (IEPR)
- State of California Energy Plan
- California Code Title 24, Part 6, Energy Efficiency Standards
- California Code Title 24, Part 11, California Green Building Standards (CalGreen) Code
- AB 1493 Pavley Regulations and Fuel Efficiency Standards
- California’s Renewable Portfolio Standard (RPS)
- Clean Energy and Pollution Reduction Act of 2015 (SB 350)

Consistency with the above regulations is discussed in detail in section 5 of this report.

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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Menifee Commerce Center (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed project is located south of Ethanac Road between Trumble Road and Dawson Road in the City of Perris. The Project location is shown on Exhibit 1-A. The Project Site is generally located east of the I-215 Freeway with the nearest residential uses located north and south of the Project site.

1.2 PROJECT DESCRIPTION

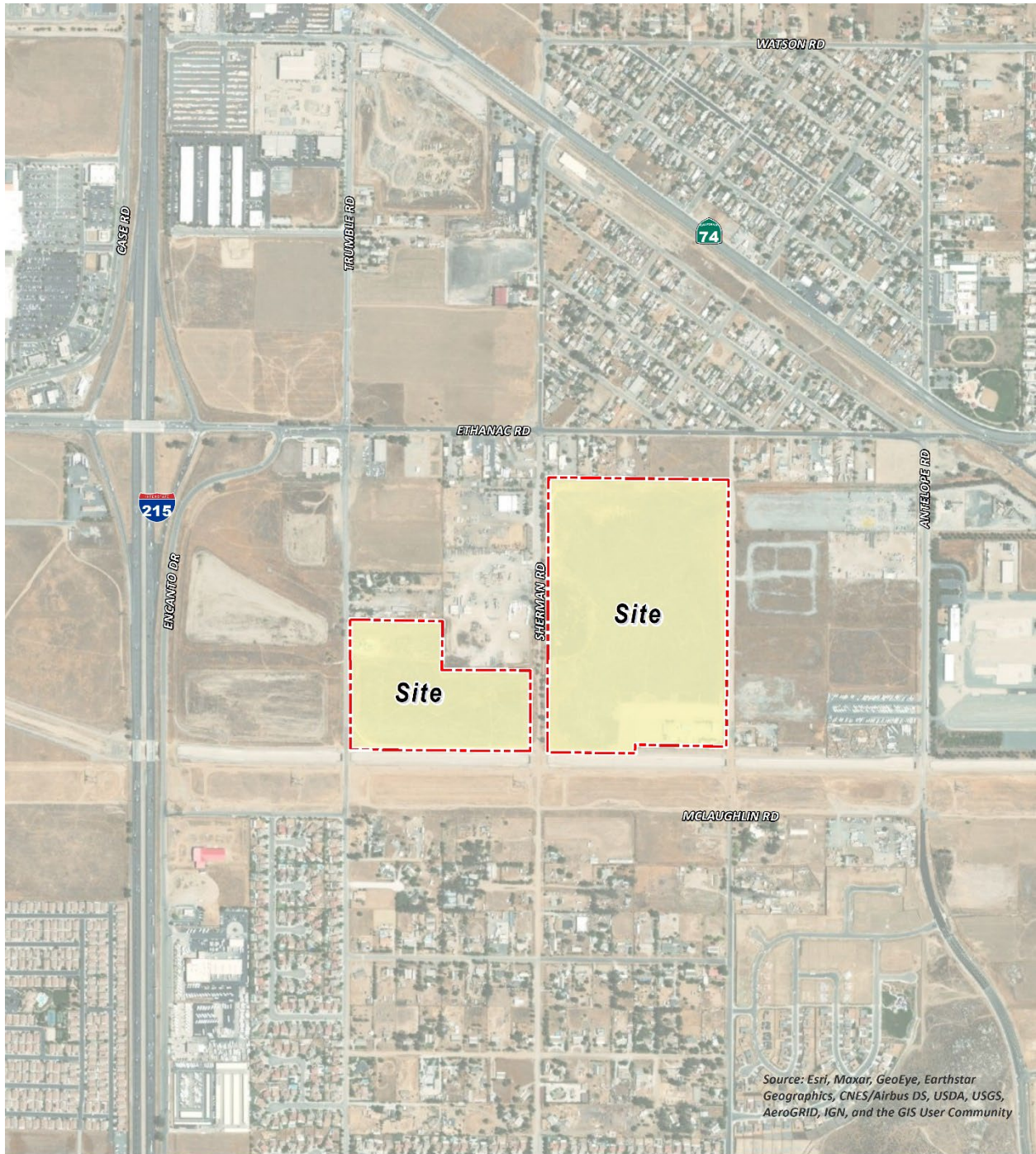
The proposed Project includes the development of two non-refrigerated warehouse buildings on approximately 72 acres. Building 1, located between Dawson Road and Sherman Road, will contain a total of 1,254,160 square feet (sf). Building 2, located between Sherman Road and Trumble Road, will contain a total of 385,970 sf. The Project site plan is shown on Exhibit 1-B. The Project is anticipated to be developed within a single phase with an Opening Year of 2024.

It is expected that the Project business operations would primarily be conducted within the enclosed buildings, except for traffic movement, parking, as well as loading and unloading of trucks at designated loading bays. This analysis includes a conservative assumption of on-site Project-related emission sources for potential future tenants, including architectural coatings, consumer products, landscape maintenance equipment, natural gas, electricity, mobile operations, and on-site cargo handling equipment. This analysis is intended to describe air quality impacts associated with the expected typical operational activities at the Project site. To present a conservative approach, this report assumes the Project would operate 24-hours daily for seven days per week.

This report evaluates two project scenarios. Scenario 1 is based on trip rates presented in the *Menifee Commerce Center Project Traffic Impact Analysis (TIA)* prepared by Albert A. Webb Associates. Under Scenario 1, Building 1 is evaluated as high-cube fulfillment center warehouse space and Building 2 is evaluated as general warehousing space. Under Scenario 1, the Project would be expected to generate a total of approximately 8,749 vehicular trips per day, which includes 470 truck trips per day (2).

Scenario 2 is based on supplemental trip generation data provided by Albert A. Webb Associates and evaluates Building 1 as high-cube transload and short-term storage warehouse space and Building 2 as general warehousing space. Under Scenario 2, the Project would be expected to generate a total of approximately 2,429 vehicular trips per day, which includes 509 truck trips per day.

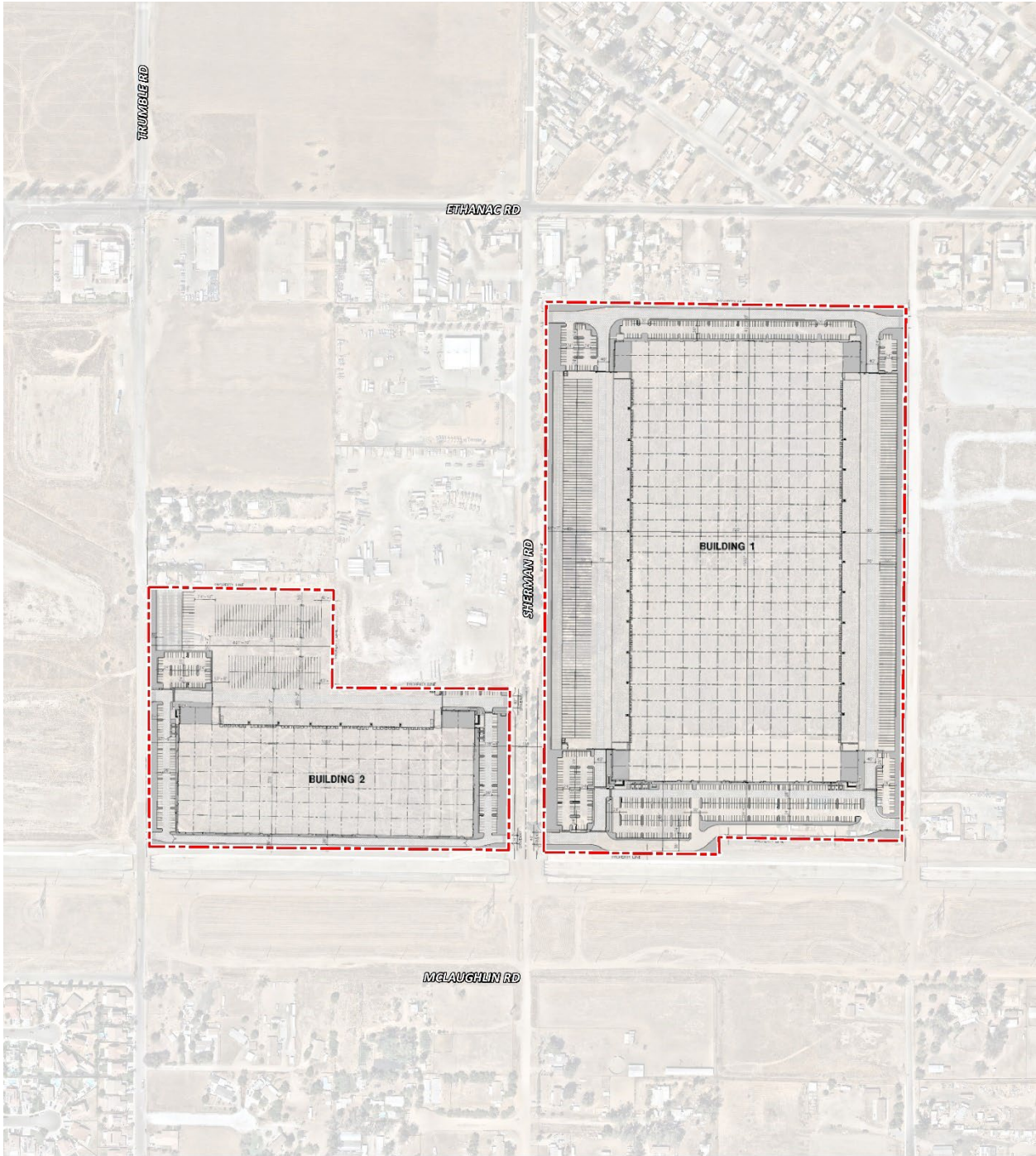
EXHIBIT 1-A: LOCATION MAP



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

 **LEGEND:**  Site Boundary

EXHIBIT 1-B: SITE PLAN



N
LEGEND: [Red dashed line] Site Boundary

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2 EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the Project region.

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption and natural gas consumption is from 2018 and 2019, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2021 and included (3):

- As of 2018, approximately 7,967 trillion British Thermal Unit (BTU) of energy was consumed
- As of 2018, approximately 681 million barrels of petroleum
- As of 2019, approximately 2,144 billion cubic feet of natural gas
- As of 2019, approximately 1 million short tons of coal

The California Energy Commission's (CEC) Transportation Energy Demand Forecast 2018-2030 was released in order to support the 2017 Integrated Energy Policy Report. The Transportation energy Demand Forecast 2018-2030 lays out graphs and data supporting their projections of California's future transportation energy demand. The projected inputs consider expected variable changes in fuel prices, income, population, and other variables. Predictions regarding fuel demand included:

- Gasoline demand in the transportation sector is expected to decline from approximately 15.8 billion gallons in 2017 to between 12.3 billion and 12.7 billion gallons in 2030 (4)
- Diesel demand in the transportation sector is expected to rise, increasing from approximately 3.7 billion diesel gallons in 2015 to approximately 4.7 billion in 2030 (4)
 - Data from the Department of Energy states that approximately 3.9 billion gallons of diesel fuel were consumed in 2017 (5)

The most recent data provided by the EIA for energy use in California by demand sector is from 2018 and is reported as follows:

- Approximately 39.1% transportation
- Approximately 23.5% industrial
- Approximately 18.3% residential
- Approximately 19.2% commercial (6)

In 2019, total system electric generation for California was 277,704 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 200,475 GWh which accounted for approximately 72% of the electricity it uses; the rest was imported from the Pacific Northwest (9%) and the U.S. Southwest (19%) (7). Natural gas is the main source for electricity generation at 42.97% of the total in-state electric generation system power as shown in Table 2-1.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2019)

Fuel Type	California In-State Generation (GWh)	Percent of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Percent of Imports	Total California Energy Mix	Total California Power Mix
Coal	248	0.12%	219	7,765	7,985	10.34%	8,233	2.96%
Natural Gas	86,136	42.97%	46	8,859	8,906	11.53%	95,042	34.22%
Oil	36	0.02%	0	0	0	0.00%	36	0.01%
Other (Waste Heat/Petroleum Coke)	411	0.20%	0	11	11	0.01%	422	0.15%
Nuclear	16,163	8.06%	0	8,743	8,743	11.32%	24,906	8.97%
Large Hydro	33,145	16.53%	5,071	1,071	6,142	7.95%	39,287	14.15%
Unspecified	0	0.00%	7,979	13,767	21,746	28.16%	21,746	7.83%
Non-Renewable and Unspecified Totals	136,139	67.91%	13,315	40,218	53,533	69.32%	189,672	68.30%
Biomass	5,851	2.92%	903	33	936	1.21%	6,787	2.44%
Geothermal	10,943	5.46%	99	2,218	2,318	3.00%	13,260	4.77%
Small Hydro	5,349	2.67%	292	4	296	0.38%	5,646	2.03%
Solar	28,513	14.22%	282	5,295	5,577	7.22%	34,090	12.28%
Wind	13,680	6.82%	9,038	5,531	14,569	18.87%	28,249	10.17%
Renewable Totals	64,336	32.09%	10,615	13,081	23,696	30.68%	88,032	31.70%
System Totals	200,475	100.00%	23,930	53,299	77,229	100.00%	277,704	100.00%

Source: California Energy Commission's 2019 Total System Electric Generation

An updated summary of, and context for energy consumption and energy demands within the State is presented in “U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts” excerpted below (8):

- California was the seventh-largest producer of crude oil among the 50 states in 2019, and, as of January 2020, it ranked third in oil refining capacity. Foreign suppliers, led by Saudi Arabia, Iraq, Ecuador, and Colombia, provided more than half of the crude oil refined in California in 2019.
- California is the largest consumer of both jet fuel and motor gasoline among the 50 states and accounted for 17% of the nation’s jet fuel consumption and 11% of motor gasoline consumption in 2019. The state is the second-largest consumer of all petroleum products combined, accounting for 10% of the U.S. total. In 2018, California’s energy consumption was the second highest among the states, but its per capita energy consumption was the fourth-lowest due in part to its mild climate and its energy efficiency programs.
- In 2019, California was the nation’s top producer of electricity from solar, geothermal, and biomass energy and the state was second in the nation in conventional hydroelectric power generation.
- In 2019, California was the fourth largest electricity producer in the nation, but the state was also the nation’s largest importer of electricity and received about 28% of its electricity supply from generating facilities outside of California, including imports from Mexico.

As indicated above, California is one of the nation’s leading energy-producing states, and California’s per capita energy use is among the nation’s most efficient. Given the nature of the Project, the remainder of this discussion would focus on the three sources of energy that are most relevant to the project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

2.2 ELECTRICITY

The usage associated with electricity use were calculated using the California Emissions Estimator Model (CalEEMod) Version 2020.4.0. The Southern California region’s electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board’s once-through cooling policy, the retirement of San Onofre complicated the situation. California ISO studies revealed the extent to which the South California Air Basin (SCAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts (9). Similarly, the 2020 IEPR identifies broad strategies that are aimed at maintaining electricity system reliability.

Electricity is currently provided to the Project by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2018 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (10).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California Independent Service Operator (ISO) is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that enough power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (11).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, utilities file annual transmission expansion/modification plans to accommodate the State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western U.S. electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Tables 2-2 identifies SCE's specific proportional shares of electricity sources in 2019. As indicated in Table 2-2, the 2019 SCE Power Mix has renewable energy at 35.1% of the overall energy resources. Geothermal resources are at 5.9%, wind power is at 11.5%, large hydroelectric sources are at 7.9%, solar energy is at 16.0%, and coal is at 0% (12).

TABLE 2-2: SCE 2019 POWER CONTENT MIX

Energy Resources	2019 SCE Power Mix
Eligible Renewable	35.1%
Biomass & Waste	0.6%
Geothermal	5.9%
Eligible Hydroelectric	1.0%
Solar	16.0%
Wind	11.5%
Coal	0.0%
Large Hydroelectric	7.9%
Natural Gas	16.1%
Nuclear	8.2%
Other	0.1%
Unspecified Sources of power*	32.6%
Total	100%

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

The following summary of natural gas customers and volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

"The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800, 000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.

The overwhelming majority of natural gas utility customers in California are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcf, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e., they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California gas utilities are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. Another pipeline, the North Baja - Baja Norte Pipeline takes gas off the El Paso Pipeline at the California/Arizona border, and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, and authorizes rates for that service, the California Public Utilities Commission may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipeline systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.

Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production.

PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. These storage fields, and four independently owned storage utilities - Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage - help meet peak seasonal and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field. These storage fields provide a significant amount of infrastructure capacity to help meet

California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements .

Prior to the late 1980s, California regulated utilities provided virtually all-natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.

The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.

Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.

In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).

In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm backbone transmission capacity at various receipt points on the SoCalGas system. A

certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.

Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.

In order properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California." (13)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the state in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The CPUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

Based on information provided by the Project applicant, no natural gas would be used as a result of the Project, and as such use of natural gas is not considered in the analysis.

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. In February 2021, the Department of Motor Vehicles (DMV) identified 35.8 million registered vehicles in California (14), and those vehicles consume an estimated 17.5 billion gallons of fuel each year¹. Gasoline (and other vehicle fuels)

¹ Fuel consumptions estimated utilizing information from EMFAC2017.

are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

California's on-road transportation system includes 394,383 land miles, more than 25.5 million passenger vehicles and light trucks, and almost 8.7 million medium- and heavy-duty vehicles (14). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. Petroleum comprises about 88% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (15). In 2020, about 123.49 billion gallons (or about 2.94 billion barrels¹) of finished motor gasoline were consumed in the U.S., an average of about 337 million gallons per day (or about 8.03 million barrels per day). This was the lowest level of annual consumption since 1997 and about 16% less than the record level of consumption of nearly 392 million gallons per day in 2018 (16). In 2020, Californians also used 2,154,030 million cubic feet of natural gas as a transportation fuel (17).

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3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the U.S. Department of Transportation, the U.S. Department of Energy, and the U.S. Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the CEC are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

3.1 FEDERAL REGULATIONS

3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

The ISTEA promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21ST CENTURY (TEA-21)

The TEA-21 was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation, discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

3.2 CALIFORNIA REGULATIONS

3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301[a]). The CEC prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2020 IEPR was adopted March 23, 2020, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2020 IEPR identifies actions the

state and others can take to ensure a clean, affordable, and reliable energy system. California's innovative energy policies strengthen energy resiliency, reduce greenhouse gas (GHG) emissions that cause climate change, improve air quality, and contribute to a more equitable future (18).

3.2.2 STATE OF CALIFORNIA ENERGY PLAN

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

3.2.3 CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020. The 2019 Title are applicable to building permit applications submitted on or after January 1, 2020. The 2019 Title 24 standards require solar PV systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting standards for nonresidential buildings. The CEC anticipates that nonresidential buildings would use approximately 30% less energy due to lighting upgrades compared to the prior code (19).

Because the Project would be constructed after January 1, 2020, the 2019 CALGreen standards are applicable to the Project and require, among other items (20):

- Electric vehicle (EV) charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106.5.3.3 (5.106.5.3).
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).

3.2.4 AB 1493 PAVLEY REGULATIONS AND FUEL EFFICIENCY STANDARDS

California AB 1493, enacted on July 22, 2002, required California Air Resources Board (CARB) to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG

emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

3.2.5 CALIFORNIA'S RENEWABLE PORTFOLIO STANDARD

First established in 2002 under Senate Bill (SB) 1078, California's RPS requires retail sellers of electric services to increase procurement from eligible renewable resources to 33% of total retail sales by 2020 (20).

3.2.6 CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

In October 2015, the legislature approved, and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target would be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which would facilitate the growth of renewable energy markets in the western U.S. (California Leginfo 2015).

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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

In compliance with Appendix G of the *State CEQA Guidelines* (1), this report analyzes the project's anticipated energy use during construction and operations to determine if the Project would:

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

4.2 METHODOLOGY

Information from the CalEEMod Version 2020.4.0 outputs for the *Menifee Commerce Center Air Quality Impact Analysis* (AQIA) (21) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CAL EEMOD

In May 2021, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2020.4.0. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources as well as energy usage (22). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Output from the annual construction model runs is provided in Appendix 4.1 and Appendix 4.2 for annual operational emissions.

4.2.2 EMISSION FACTORS MODEL

On August 19, 2019, the EPA approved the 2017 version of the EMISSIONS FACTOR model (EMFAC) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (23). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2017 emission inventory in order to derive the average vehicle fuel economy which is then used to determine the estimated annual fuel consumption associated with vehicle usage during Project construction and operational activities. For purposes of analysis, the 2023 and 2024 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project.

4.3 CONSTRUCTION ENERGY DEMANDS

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project.

4.3.1 CONSTRUCTION POWER COST

The total Project construction power costs is the summation of the products of the area (sf) by the construction duration and the typical power cost.

CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in January 2022 and would last through December 2024 (21). The construction schedule utilized in the analysis, shown in Table 4-1, represents a “worst-case” analysis scenario. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (24).

TABLE 4-1: CONSTRUCTION DURATION

Construction Activity	Start Date	End Date	Days
Demolition	01/01/2023	01/31/2023	22
Clear Site	02/01/2023	02/09/2023	7
Recompact	02/10/2023	03/02/2023	15
Recompact and Import	03/03/2023	05/22/2023	57
Fine Grading	05/23/2023	06/12/2023	15
Offsite Site Preparation	06/13/2023	07/24/2023	30
Building Construction	06/13/2023	06/10/2024	260
2 nd Move In	11/01/2023	11/28/2023	20
3 rd Move In	02/01/2024	03/27/2024	40
Offsite Paving	06/11/2024	08/26/2024	55
Paving	06/11/2024	09/09/2024	65
Architectural Coating	09/10/2024	12/09/2024	65

PROJECT CONSTRUCTION POWER COST

The *2021 National Construction Estimator* identifies a typical power cost per 1,000 sf of construction per month of \$2.37, which was used to calculate the Project’s total construction power cost (25). As shown on Table 4-2, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately \$171,156.39.

TABLE 4-2: CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of building per month of construction)	Total Building Size (1,000 SF)	Construction Duration (months)	Total Project Construction Power Cost
Unrefrigerated Warehouse-No Rail	\$2.37	1,640.130	23	\$89,403.49
Other Asphalt Surfaces	\$2.37	1,499.778	23	\$81,752.90
TOTAL PROJECT CONSTRUCTION COST				\$171,156.39

4.3.2 CONSTRUCTION ELECTRICITY USAGE

The total Project construction electricity usage is the summation of the products of the power cost (estimated in Table 4-2) by the utility provider cost per kilowatt hour (kWh) of electricity.

PROJECT CONSTRUCTION ELECTRICITY USAGE

The SCE's general service rate schedule were used to determine the Project's electrical usage. As of May 1, 2021, SCE's general service rate is \$0.13 per kilowatt hours (kWh) of electricity for industrial services (26). As shown on Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 1,369,251 kWh.

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Total Project Construction Electricity Usage (kWh)
Unrefrigerated Warehouse-No Rail	\$0.13	715,228
Other Asphalt Surfaces	\$0.13	654,023
TOTAL PROJECT CONSTRUCTION ELECTRICTY USAGE (kWh)		1,369,251

4.3.3 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction.

CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 would operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code. It should be noted that most pieces of equipment would likely operate for fewer hours per day. A summary of construction equipment assumptions by phase is provided at Table 4-4.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Construction Activity	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Clear Site	Rubber Tired Loaders	1	8
Recompact	Rubber Tired Dozers	1	8
	Scrapers	10	8
Recompact and Import	Rubber Tired Dozers	2	8
	Scrapers	10	8
	Sweepers/Scrubbers	1	8
Fine Grading	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	4	8
Offsite Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8
Building Construction	Cranes	2	8
	Forklifts	6	8
	Generator Sets	2	8
	Tractors/Loaders/Backhoes	6	8
	Welders	2	8
2 nd Move In	Graders	1	8
	Rubber Tired Loaders	2	8
	Scrapers	1	8
3 rd Move In	Graders	1	8
	Rollers	1	8
	Rubber Tired Loaders	2	8
	Scrapers	1	8
Offsite Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Paving	Pavers	4	8
	Paving Equipment	4	8
	Rollers	4	8

Construction Activity	Equipment	Amount	Hours Per Day
Architectural Coating	Air Compressors	2	8

PROJECT CONSTRUCTION EQUIPMENT FUEL CONSUMPTION

Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-5. The aggregate fuel consumption rate for all equipment is estimated at 49.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines (27). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the Project area and region². As presented in Table 4-5, Project construction activities would consume an estimated 70,402 gallons of diesel fuel.

Project construction would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

² Based on Appendix A of the CalEEMod User’s Guide, Construction consists of several types of off-road equipment. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel.

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Activity/Duration	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
Demolition	22	Concrete/Industrial Saws	81	1	8	0.73	473	210
		Excavators	158	3	8	0.38	1,441	640
		Rubber Tired Dozers	247	2	8	0.40	1,581	703
Clear Site	7	Rubber Tired Loaders	247	1	8	0.40	790	112
Recompact	15	Rubber Tired Dozers	158	1	8	0.38	480	146
		Scrapers	187	10	8	0.41	6,134	1,859
Recompact and Import	57	Rubber Tired Dozers	247	2	8	0.40	1,581	1,820
		Scrapers	367	10	8	0.48	14,093	16,228
		Sweepers/Scrubbers	64	1	8	0.46	236	271
Fine Grading	57	Graders	187	1	8	0.41	613	706
		Rubber Tired Dozers	247	1	8	0.40	790	910
		Scrapers	367	4	8	0.48	5,637	6,491
Offsite Site Preparation	15	Crawler Tractors	97	4	8	0.37	1,148	348
		Rubber Tired Dozers	247	3	8	0.40	2,371	719
Building Construction	260	Cranes	231	2	8	0.29	1,072	5,630
		Forklifts	89	6	8	0.20	854	4,488
		Generator Sets	84	2	8	0.74	995	5,224
		Tractors/Loaders/Backhoes	97	6	8	0.37	1,723	9,049
		Welders	46	2	8	0.45	331	1,740
2nd Move In	20	Graders	187	1	8	0.41	613	248
		Rubber Tired Loaders	203	2	8	0.36	1,169	472
		Scrapers	367	1	8	0.48	1,409	569

Activity/Duration	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption (gal. diesel fuel)
3rd Move In	40	Graders	187	1	8	0.41	613	496
		Rollers	80	1	8	0.38	243	197
		Rubber Tired Loaders	247	2	8	0.40	1,581	1,277
		Scrapers	367	1	8	0.48	1,409	1,139
Offsite Paving	55	Pavers	130	2	8	0.42	874	971
		Paving Equipment	132	2	8	0.36	760	845
		Rollers	80	2	8	0.38	486	540
Paving	65	Pavers	130	4	8	0.42	1,747	2,294
		Paving Equipment	132	4	8	0.36	1,521	1,997
		Rollers	80	4	8	0.38	973	1,277
Architectural Coating	65	Air Compressors	78	2	8	0.48	599	787
CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)								70,402

4.3.4 CONSTRUCTION TRIPS AND VMT

Construction generates on-road vehicle emissions from vehicle usage for workers and vendors commuting to and from the site. The number of workers and vendor trips are presented below in Table 4-6. It should be noted that for vendor trips, specifically, CalEEMod only assigns Vendor Trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for vendor trips (other than Vendor trips related to Storm Drain Construction activities) have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity.

TABLE 4-6: CONSTRUCTION TRIPS AND VMT

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Demolition	15	0	39
Clear Site	3	0	0
Recompact	28	0	0
Recompact and Import	33	0	21,763
Fine Grading	15	0	0
2 nd Move In	10	0	0
Building Construction	1,319	515	0
3 rd Move In	13	0	0
Onsite Paving	30	0	0
Architectural Coating	264	0	0
Offsite Site Preparation	18	0	0
Offsite Paving	15	0	0

4.3.5 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips would generate an estimated 5,371,865 VMT during the 23 months of construction (21). Based on CalEEMod methodology, it is assumed that 50% of all worker trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1³), and 25% are from light-duty-trucks (LDT2⁴). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2017 version of the EMFAC developed by CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (23). EMFAC2017 was

³ Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

⁴ Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

run for the LDA, LDT1, and LDT2 vehicle class within the Riverside south-coast sub-area for the 2023 through 2024 calendar years. Data from EMFAC2017 is shown in Appendix 4.3.

Table 4-7 provides an estimated annual fuel consumption resulting from LDAs related to the Project construction worker trips. Based on Table 4-7, it is estimated that 112,661 gallons of fuel would be consumed related to construction worker trips during full construction of the Project.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDA

Construction Activity	Duration (Days)	Worker LDA Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	22	11	14.7	3,557	33.79	105
Clear Site	7	3	14.7	309	33.79	9
Recompact	15	20	14.7	4,410	33.79	131
Recompact and Import	57	24	14.7	20,110	33.79	595
Fine Grading	15	11	14.7	2,426	33.79	72
Offsite Site Preparation	30	8	14.7	3,528	33.79	104
Building Construction	260	937	14.7	3,581,214	33.79	105,997
2nd Move In	20	10	14.7	2,940	33.79	87
3rd Move In	40	22	14.7	12,936	33.79	383
Offsite Paving	55	188	14.7	151,998	33.79	4,499
Paving	65	13	14.7	12,422	33.79	368
Architectural Coating	65	11	14.7	10,511	33.79	311
TOTAL CONSTRUCTION WORKER (LDA) FUEL CONSUMPTION						112,661

Table 4-8 provides an estimated annual fuel consumption resulting from LDT1s related to the Project construction worker trips. Based on Table 4-8, it is estimated that 13,726 gallons of fuel would be consumed related to construction worker trips during full construction of the Project.

TABLE 4-8: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDT1

Construction Activity	Duration (Days)	Worker LDT1 Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	22	2	14.7	1,294	28.38	46
Clear Site	7	1	14.7	103	28.38	4
Recompact	15	2	14.7	441	28.38	16
Recompact and Import	57	3	14.7	2,514	28.38	89
Fine Grading	15	2	14.7	441	28.38	16
Offsite Site Preparation	30	1	14.7	441	28.38	16
Building Construction	260	95	14.7	363,090	28.38	12,793
2nd Move In	20	1	14.7	294	28.38	10
3rd Move In	40	3	14.7	1,764	28.38	62
Offsite Paving	55	19	14.7	15,362	28.38	541
Paving	65	2	14.7	1,911	28.38	67
Architectural Coating	65	2	14.7	1,911	28.38	67
TOTAL CONSTRUCTION WORKER (LDT1) FUEL CONSUMPTION						13,726

Table 4-9 provides an estimated annual fuel consumption resulting from LDT2s related to the Project construction worker trips. Based on Table 4-9, it is estimated that 43,520 gallons of fuel would be consumed related to construction worker trips during full construction of the Project.

TABLE 4-9: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES – LDT2

Construction Activity	Duration (Days)	Worker LDT2 Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	22	4	14.7	1,294	27.02	48
Clear Site	7	1	14.7	103	27.02	4
Recompact	15	7	14.7	1,544	27.02	57
Recompact and Import	57	8	14.7	6,703	27.02	248
Fine Grading	15	4	14.7	882	27.02	33
Offsite Site Preparation	30	3	14.7	1,323	27.02	49
Building Construction	260	289	14.7	1,104,558	27.02	40,878
2nd Move In	20	3	14.7	882	27.02	33
3rd Move In	40	7	14.7	4,116	27.02	152
Offsite Paving	55	58	14.7	46,893	27.02	1,735
Paving	65	4	14.7	3,822	27.02	141
Architectural Coating	65	4	14.7	3,822	27.02	141
TOTAL CONSTRUCTION WORKER (LDT2) FUEL CONSUMPTION						43,520

It should be noted that construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

4.3.6 CONSTRUCTION VENDOR FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips (vehicles that deliver materials to the site during construction) would generate an estimated 979,368 VMT along area roadways for the Project over the duration of construction activity (21). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT) and 50% are from heavy-heavy duty trucks (HHDT). These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (21). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2017. EMFAC2017 was run for the MHDT and HHDT vehicle classes within the Riverside south-coast sub-area for the 2023 through 2024 calendar years. Data from EMFAC2017 is shown in Appendix 4.3.

Based on Table 4-10, it is estimated that 40,339 gallons of fuel would be consumed related to construction vendor trips (MHDTs) during full construction of the Project.

TABLE 4-10: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES – MHDT

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction	260	229	7.3	434,642	10.77	40,339
TOTAL CONSTRUCTION VENDOR (MHDT) FUEL CONSUMPTION						40,339

Tables 4-11 shows the estimated fuel economy of HHDTs accessing the Project site. Based on Tables 4-11, fuel consumption from construction vendor trips (HHDTs) would total approximately 73,258 gallons.

TABLE 4-11: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES – HHDT

Construction Activity	Duration (Days)	Vendor Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Building Construction	260	287	7.3	544,726	7.44	73,258
TOTAL CONSTRUCTION VENDOR (HHDT) FUEL CONSUMPTION						73,258

Tables 4-12 shows the estimated fuel economy of HHDTs accessing the Project site. Based on Tables 4-12, fuel consumption from construction hauling trips (HHDTs) would total approximately 58,685 gallons.

TABLE 4-12: CONSTRUCTION HAULING FUEL CONSUMPTION ESTIMATES – HHDT

Construction Activity	Duration (Days)	Hauling Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
Demolition	22	2	20	880	7.44	118
Recompact and Import	57	382	20	435,480	7.44	58,566
TOTAL CONSTRUCTION HAULING (HHDT) FUEL CONSUMPTION						58,685

It should be noted that Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

4.3.7 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

Starting in 2014, CARB adopted the nation's first regulation aimed at cleaning up off-road construction equipment such as bulldozers, graders, and backhoes. These requirements ensure fleets gradually turnover the oldest and dirtiest equipment to newer, cleaner models and prevent fleets from adding older, dirtier equipment. As such, the equipment used for Project construction would conform to CARB regulations and California emissions standards. It should also be noted that there are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

Construction contractors would be required to comply with applicable CARB regulation regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additional construction-source energy efficiencies would occur due to required California regulations and best available control measures (BACM). For example, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. In this manner, construction equipment operators are required to be informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, the construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

4.4 OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to Project operations would include transportation energy demands (energy consumed by passenger car and truck vehicles accessing the Project site) and facilities energy demands (energy consumed by building operations and site maintenance activities).

4.4.1 TRANSPORTATION ENERGY DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The VMT per vehicle class can be determined by evaluated in the vehicle fleet mix and the total VMT.

As with worker and vendors trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2017 developed by CARB (23). EMFAC2017 was run for the Riverside County area for the 2024 calendar years. Data from EMFAC2017 is shown in Appendix 4.3.

As summarized on Table 4-13 and 4-14 the Project would result in 4,462,117 annual VMT and an estimated annual fuel consumption of 1,995,597 gallons of fuel in Scenario 1 and 15,626,976 annual VMT and 1,130,005 gallons of fuel in Scenario 2.

TABLE 4-13: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (SCENARIO 1)

Vehicle Type	Annual Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	20,540,418	33.8	607,705
LDT1	2,147,245	28.4	75,607
LDT2	6,614,011	27	244,963
MDV	5,285,717	21.5	245,847
LHD1	1,164,037	14.6	79,729
LHD2	0	15.3	0
MHD	1,429,261	10.8	132,339
HHD	4,331,987	7.4	585,404
OBUS	0	6.7	0
UBUS	0	6.2	0
MCY	909,729	37.9	24,003
SBUS	0	8.1	0
MH	0	6.2	0
Total (All Vehicles)	42,422,406	NA	1,995,597

TABLE 4-14: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (SCENARIO 2)

Vehicle Type	Annual Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	4,758,869	33.8	140,795
LDT1	497,481	28.4	17,517
LDT2	1,532,355	27	56,754
MDV	1,224,612	21.5	56,959
LHD1	1,236,239	14.6	84,674
LHD2	0	15.3	0
MHD	1,541,663	10.8	142,747
HHD	4,624,989	7.4	624,998
OBUS	0	6.7	0
UBUS	0	6.2	0
MCY	210,769	37.9	5,561
SBUS	0	8.1	0
MH	0	6.2	0
Total (All Vehicles)	15,626,976	NA	1,130,005

4.4.2 FACILITY ENERGY DEMANDS

CALGREEN STANDARDS

Project building operations activities would result in the consumption of natural gas and electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied to the Project by SCE. Annual natural gas and electricity demands of the Project are summarized in Tables 4-15 and 4-16 and provided in Appendices 4.2.

TABLE 4-15: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Natural Gas Demand	kBTU/year
Unrefrigerated Warehouse-No Rail	3,296,660
TOTAL PROJECT NATURAL GAS DEMAND	3,296,660

kBTU – kilo-British Thermal Units

TABLE 4-16: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Electricity Demand	kWh/year
Unrefrigerated Warehouse-No Rail	3,805,106
TOTAL PROJECT ELECTRICITY DEMAND	3,805,106

kWh – Kilo Watt Hours

4.4.3 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title 24, California Green Building Standards Code).

ENHANCED VEHICLE FUEL EFFICIENCIES

Project annual fuel consumption estimates presented previously in Table 4-12 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be approximately \$171,156.39. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be approximately 1,369,251 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 70,402 gallons of diesel fuel. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 169,906 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) would total approximately 172,282 gallons. Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 2020 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent government requirements (28). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 OPERATIONAL ENERGY DEMANDS

TRANSPORTATION ENERGY DEMANDS

Annual vehicular trips and related VMT generated by the operation of the Project would result in an estimated annual fuel consumption of 1,995,597 gallons of fuel in scenario 1 and 1,130,005 gallons of fuel in scenario 2. Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (10th Ed., 2017); and CalEEMod. As such, Project operations would not result in excessive and wasteful vehicle trips and VMT, nor excess and wasteful vehicle energy consumption compared to other industrial uses.

It should be noted that the state strategy for the transportation sector for medium and heavy-duty trucks is focused on making trucks more efficient and expediting truck turnover rather than reducing VMT from trucks. This is in contrast to the passenger vehicle component of the transportation sector where both per-capita VMT reductions and an increase in vehicle efficiency are forecasted to be needed to achieve the overall state emissions reductions goals.

Heavy duty trucks involved in goods movements are generally controlled on the technology side and through fleet turnover of older trucks and engines to newer and cleaner trucks and engines. The first battery-electric heavy-heavy duty trucks are being tested this year and SCAQMD is looking to integrate this new technology into large-scale truck operations. The following state strategies reduce GHG emissions from the medium and heavy-duty trucks:

- CARB's Mobile Source Strategy focuses on reducing GHGs through the transition to zero and low emission vehicles and from medium-duty and heavy-duty trucks.
- CARB's Sustainable Freight Action Plan establishes a goal to improve freight efficiency by 25 percent by 2030, deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
- CARB's Emissions Reduction Plan for Ports and Goods Movement (Goods Movement Plan) in California focuses on reducing heavy-duty truck-related emissions focus on establishment of emissions standards for trucks, fleet turnover, truck retrofits, and restriction on truck idling (CARB 2006). While the focus of Goods Movement Plan is to reduce criteria air pollutant and air toxic emissions, the strategies to reduce these pollutants would also generally have a beneficial effect in reducing GHG emissions.
- CARB's On-Road Truck and Bus Regulation (2010) requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023 nearly all trucks and buses would need to have 2010 model year engines or equivalent (29).
- CARB's Heavy-Duty (Tractor-Trailer) GHG Regulation requires SmartWay tractor trailers that include idle-reduction technologies, aerodynamic technologies, and low-rolling resistant tires that would reduce fuel consumption and associated GHG emissions.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code and City requirements, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

FACILITY ENERGY DEMANDS

Project facility operational energy demands are estimated at: 3,296,660 kBTU/year of natural gas; and 3,805,106 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by SCE. The Project proposes conventional industrial uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The Project does not propose uses that are inherently energy intensive and the energy demands in total would be comparable to other industrial uses of similar scale and configuration.

Lastly, the Project would comply with the applicable Title 24 standards. Compliance itself with applicable Title 24 standards would ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

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5 CONCLUSIONS

5.1 ENERGY IMPACT 1

Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation.

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful, or unnecessary consumption of energy. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. The Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California.

5.2 ENERGY IMPACT 2

Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

The Project's consistency with the applicable state and local plans is discussed below.

CONSISTENCY WITH ISTE A

Transportation and access to the Project site is provided by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTE A because SCAG is not planning for intermodal facilities on or through the Project site.

CONSISTENCY WITH TEA-21

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.

CONSISTENCY WITH IEPR

Electricity would be provided to the Project by SCE. SCE's *Clean Power and Electrification Pathway* (CPEP) white paper builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2020 IEPR.

Additionally, the Project would comply with the applicable Title 24 standards which would ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary. As such, development of the proposed Project would support the goals presented in the 2020 IEPR.

CONSISTENCY WITH STATE OF CALIFORNIA ENERGY PLAN

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access and takes advantage of existing infrastructure systems. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with, nor obstruct implementation of the State of California Energy Plan.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

The 2019 version of Title 24 was adopted by the CEC and became effective on January 1, 2020. It should be noted that the analysis herein assumes compliance with the 2019 Title 24 Standards. It should be noted that the CEC anticipates that nonresidential buildings would use approximately 30% less energy compared to the prior code (19). As such, the CalEEMod defaults for Title 24 – Electricity and Lighting Energy were reduced by 30% in order to reflect consistency with the 2019 Title 24 standard.

CONSISTENCY WITH AB 1493

AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.

CONSISTENCY WITH RPS

California’s RPS is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.

CONSISTENCY WITH SB 350

The proposed Project would use energy from SCE, which have committed to diversify their portfolio of energy sources by increasing energy from wind and solar sources. No feature of the Project would interfere with implementation of SB 350. Additionally, the Project would be designed and constructed to implement the energy efficiency measures for new industrial developments and would include several measures designed to reduce energy consumption.

As shown above, the Project would not conflict with any of the state or local plans. As such, a less than significant impact is expected.

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7 CERTIFICATIONS

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Menifee Commerce Center. The information contained in this energy analysis report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION MODEL OUTPUTS

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

**14616 Menifee Commerce Construction Mitigated
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on Project-specific data.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Project will utilize super-compliant architectural coatings.

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.0506	9.3389	9.3595	0.0328	2.5690	0.3274	2.8964	0.8305	0.3043	1.1348	0.0000	3,027.4321	3,027.4321	0.3292	0.2052	3,096.8197
2024	1.6815	4.2633	6.7325	0.0193	1.2480	0.1522	1.4002	0.3190	0.1422	0.4612	0.0000	1,779.4250	1,779.4250	0.1761	0.0909	1,810.9257
Maximum	1.6815	9.3389	9.3595	0.0328	2.5690	0.3274	2.8964	0.8305	0.3043	1.1348	0.0000	3,027.4321	3,027.4321	0.3292	0.2052	3,096.8197

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6170	7.2135	10.6278	0.0328	1.9084	0.2184	2.1268	0.5689	0.2170	0.7859	0.0000	3,027.4309	3,027.4309	0.3292	0.2052	3,096.8185
2024	1.5121	4.4718	7.3852	0.0193	1.1833	0.2001	1.3834	0.3120	0.1994	0.5114	0.0000	1,779.4243	1,779.4243	0.1761	0.0909	1,810.9250
Maximum	1.5121	7.2135	10.6278	0.0328	1.9084	0.2184	2.1268	0.5689	0.2170	0.7859	0.0000	3,027.4309	3,027.4309	0.3292	0.2052	3,096.8185

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	22.07	14.09	-11.94	0.00	19.00	12.74	18.30	23.36	6.75	18.72	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)
5	12-23-2022	3-22-2023	2.8850	1.7645
6	3-23-2023	6-22-2023	3.9312	2.4658
7	6-23-2023	9-22-2023	2.3755	2.1053
8	9-23-2023	12-22-2023	2.1547	2.0174
9	12-23-2023	3-22-2024	2.2676	2.1837
10	3-23-2024	6-22-2024	1.8580	1.8709
11	6-23-2024	9-22-2024	1.4285	1.5736
12	9-23-2024	9-30-2024	0.0999	0.1000
		Highest	3.9312	2.4658

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9700e-003	1.9000e-004	0.0213	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9700e-003	1.9000e-004	0.0213	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

	ROG	NOx	CO	SO2	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	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55
11	Paving	Paving	6/11/2024	9/9/2024	5	65
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2300e-003	0.0000	4.2300e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2363	0.2161	4.3000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	37.3913	37.3913	0.0105	0.0000	37.6531
Total	0.0250	0.2363	0.2161	4.3000e-004	4.2300e-003	0.0110	0.0152	6.4000e-004	0.0102	0.0109	0.0000	37.3913	37.3913	0.0105	0.0000	37.6531

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.2 Demolition - 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	4.0000e-005	2.0500e-003	5.4000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0387	1.0387	1.0000e-005	1.6000e-004	1.0879
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	5.4000e-004	4.0000e-004	5.1800e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3965	1.3965	3.0000e-005	4.0000e-005	1.4082
Total	5.8000e-004	2.4500e-003	5.7200e-003	3.0000e-005	2.1500e-003	3.0000e-005	2.1800e-003	5.7000e-004	3.0000e-005	6.0000e-004	0.0000	2.4352	2.4352	4.0000e-005	2.0000e-004	2.4961

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6500e-003	0.0000	1.6500e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.2014	0.2714	4.3000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003	0.0000	37.3912	37.3912	0.0105	0.0000	37.6530
Total	0.0102	0.2014	0.2714	4.3000e-004	1.6500e-003	9.4900e-003	0.0111	2.5000e-004	9.4900e-003	9.7400e-003	0.0000	37.3912	37.3912	0.0105	0.0000	37.6530

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.2 Demolition - 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	4.0000e-005	2.0500e-003	5.4000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0387	1.0387	1.0000e-005	1.6000e-004	1.0879
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	5.4000e-004	4.0000e-004	5.1800e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3965	1.3965	3.0000e-005	4.0000e-005	1.4082
Total	5.8000e-004	2.4500e-003	5.7200e-003	3.0000e-005	2.1500e-003	3.0000e-005	2.1800e-003	5.7000e-004	3.0000e-005	6.0000e-004	0.0000	2.4352	2.4352	4.0000e-005	2.0000e-004	2.4961

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	0.0126	7.1400e-003	3.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205
Total	1.2800e-003	0.0126	7.1400e-003	3.0000e-005	0.0000	4.2000e-004	4.2000e-004	0.0000	3.9000e-004	3.9000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.3 Clear Site - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896
Total	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	0.0142	0.0159	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205
Total	7.3000e-004	0.0142	0.0159	3.0000e-005	0.0000	5.4000e-004	5.4000e-004	0.0000	5.4000e-004	5.4000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.3 Clear Site - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896
Total	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0369	0.3780	0.2001	5.3000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	46.6157	46.6157	0.0151	0.0000	46.9927
Total	0.0369	0.3780	0.2001	5.3000e-004	0.0849	0.0171	0.1021	0.0291	0.0158	0.0449	0.0000	46.6157	46.6157	0.0151	0.0000	46.9927

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.4 Recompect - 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	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923
Total	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923

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					0.0331	0.0000	0.0331	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0700e-003	0.1493	0.2931	5.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	46.6157	46.6157	0.0151	0.0000	46.9926
Total	9.0700e-003	0.1493	0.2931	5.3000e-004	0.0331	1.7000e-003	0.0348	0.0114	1.7000e-003	0.0131	0.0000	46.6157	46.6157	0.0151	0.0000	46.9926

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.4 Recompact - 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	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923
Total	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5054	0.0000	0.5054	0.2067	0.0000	0.2067	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2684	2.8156	1.9808	4.8900e-003		0.1140	0.1140		0.1048	0.1048	0.0000	429.2270	429.2270	0.1388	0.0000	432.6975
Total	0.2684	2.8156	1.9808	4.8900e-003	0.5054	0.1140	0.6194	0.2067	0.1048	0.3115	0.0000	429.2270	429.2270	0.1388	0.0000	432.6975

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.5 Recompact and Import - 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	0.0230	1.1464	0.3014	5.9800e-003	0.1877	0.0131	0.2008	0.0515	0.0126	0.0641	0.0000	579.6376	579.6376	8.1800e-003	0.0913	607.0605
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	3.0500e-003	2.2600e-003	0.0295	9.0000e-005	0.0103	5.0000e-005	0.0104	2.7400e-003	5.0000e-005	2.7900e-003	0.0000	7.9598	7.9598	2.0000e-004	2.1000e-004	8.0269
Total	0.0261	1.1487	0.3310	6.0700e-003	0.1980	0.0132	0.2112	0.0543	0.0126	0.0669	0.0000	587.5974	587.5974	8.3800e-003	0.0916	615.0873

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					0.1971	0.0000	0.1971	0.0806	0.0000	0.0806	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0845	1.4132	2.6152	4.8900e-003		0.0187	0.0187		0.0187	0.0187	0.0000	429.2265	429.2265	0.1388	0.0000	432.6970
Total	0.0845	1.4132	2.6152	4.8900e-003	0.1971	0.0187	0.2158	0.0806	0.0187	0.0993	0.0000	429.2265	429.2265	0.1388	0.0000	432.6970

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.5 Recompact and Import - 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	0.0230	1.1464	0.3014	5.9800e-003	0.1877	0.0131	0.2008	0.0515	0.0126	0.0641	0.0000	579.6376	579.6376	8.1800e-003	0.0913	607.0605
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	3.0500e-003	2.2600e-003	0.0295	9.0000e-005	0.0103	5.0000e-005	0.0104	2.7400e-003	5.0000e-005	2.7900e-003	0.0000	7.9598	7.9598	2.0000e-004	2.1000e-004	8.0269
Total	0.0261	1.1487	0.3310	6.0700e-003	0.1980	0.0132	0.2112	0.0543	0.0126	0.0669	0.0000	587.5974	587.5974	8.3800e-003	0.0916	615.0873

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3369	0.2201	5.7000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	49.9975	49.9975	0.0162	0.0000	50.4017
Total	0.0316	0.3369	0.2201	5.7000e-004	0.0849	0.0133	0.0982	0.0291	0.0122	0.0413	0.0000	49.9975	49.9975	0.0162	0.0000	50.4017

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.6 Fine Grade - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602
Total	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602

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					0.0331	0.0000	0.0331	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1741	0.3027	5.7000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	49.9974	49.9974	0.0162	0.0000	50.4017
Total	0.0102	0.1741	0.3027	5.7000e-004	0.0331	2.7900e-003	0.0359	0.0114	2.7900e-003	0.0142	0.0000	49.9974	49.9974	0.0162	0.0000	50.4017

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.6 Fine Grade - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602
Total	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3505	0.0000	0.3505	0.1576	0.0000	0.1576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0520	0.5016	0.2875	5.7000e-004		0.0286	0.0286		0.0263	0.0263	0.0000	50.1666	50.1666	0.0162	0.0000	50.5723
Total	0.0520	0.5016	0.2875	5.7000e-004	0.3505	0.0286	0.3791	0.1576	0.0263	0.1839	0.0000	50.1666	50.1666	0.0162	0.0000	50.5723

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.7 Offsite Site Prep - 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	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044
Total	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044

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					0.1367	0.0000	0.1367	0.0614	0.0000	0.0614	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2860	0.3444	5.7000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	50.1666	50.1666	0.0162	0.0000	50.5722
Total	0.0140	0.2860	0.3444	5.7000e-004	0.1367	0.0142	0.1509	0.0614	0.0142	0.0756	0.0000	50.1666	50.1666	0.0162	0.0000	50.5722

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.7 Offsite Site Prep - 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	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044
Total	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044

3.8 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	0.2410	2.2230	2.4927	4.1500e-003		0.1077	0.1077		0.1012	0.1012	0.0000	357.6976	357.6976	0.0871	0.0000	359.8760
Total	0.2410	2.2230	2.4927	4.1500e-003		0.1077	0.1077		0.1012	0.1012	0.0000	357.6976	357.6976	0.0871	0.0000	359.8760

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.8 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	0.0402	1.2713	0.5065	6.4900e-003	0.2343	0.0106	0.2448	0.0676	0.0101	0.0777	0.0000	623.8729	623.8729	6.3100e-003	0.0923	651.5209
Worker	0.3083	0.2284	2.9814	8.6600e-003	1.0438	4.9800e-003	1.0488	0.2772	4.5800e-003	0.2818	0.0000	803.7442	803.7442	0.0198	0.0211	810.5206
Total	0.3485	1.4997	3.4878	0.0152	1.2781	0.0156	1.2936	0.3448	0.0147	0.3595	0.0000	1,427.6171	1,427.6171	0.0261	0.1133	1,462.0415

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	0.1037	2.1916	2.7556	4.1500e-003		0.1386	0.1386		0.1386	0.1386	0.0000	357.6972	357.6972	0.0871	0.0000	359.8755
Total	0.1037	2.1916	2.7556	4.1500e-003		0.1386	0.1386		0.1386	0.1386	0.0000	357.6972	357.6972	0.0871	0.0000	359.8755

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.8 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	0.0402	1.2713	0.5065	6.4900e-003	0.2343	0.0106	0.2448	0.0676	0.0101	0.0777	0.0000	623.8729	623.8729	6.3100e-003	0.0923	651.5209
Worker	0.3083	0.2284	2.9814	8.6600e-003	1.0438	4.9800e-003	1.0488	0.2772	4.5800e-003	0.2818	0.0000	803.7442	803.7442	0.0198	0.0211	810.5206
Total	0.3485	1.4997	3.4878	0.0152	1.2781	0.0156	1.2936	0.3448	0.0147	0.3595	0.0000	1,427.6171	1,427.6171	0.0261	0.1133	1,462.0415

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1818	1.6733	1.9983	3.3500e-003		0.0762	0.0762		0.0715	0.0715	0.0000	288.2041	288.2041	0.0698	0.0000	289.9498
Total	0.1818	1.6733	1.9983	3.3500e-003		0.0762	0.0762		0.0715	0.0715	0.0000	288.2041	288.2041	0.0698	0.0000	289.9498

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.8 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0319	1.0242	0.4034	5.1400e-003	0.1887	8.4500e-003	0.1972	0.0544	8.0900e-003	0.0625	0.0000	494.8223	494.8223	5.2600e-003	0.0731	516.7239
Worker	0.2319	0.1638	2.2499	6.7500e-003	0.8409	3.8300e-003	0.8447	0.2233	3.5300e-003	0.2268	0.0000	631.9476	631.9476	0.0145	0.0158	637.0085
Total	0.2637	1.1880	2.6533	0.0119	1.0296	0.0123	1.0419	0.2777	0.0116	0.2893	0.0000	1,126.7699	1,126.7699	0.0197	0.0888	1,153.7324

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	0.0835	1.7654	2.2198	3.3500e-003		0.1116	0.1116		0.1116	0.1116	0.0000	288.2038	288.2038	0.0698	0.0000	289.9494
Total	0.0835	1.7654	2.2198	3.3500e-003		0.1116	0.1116		0.1116	0.1116	0.0000	288.2038	288.2038	0.0698	0.0000	289.9494

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.8 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0319	1.0242	0.4034	5.1400e-003	0.1887	8.4500e-003	0.1972	0.0544	8.0900e-003	0.0625	0.0000	494.8223	494.8223	5.2600e-003	0.0731	516.7239
Worker	0.2319	0.1638	2.2499	6.7500e-003	0.8409	3.8300e-003	0.8447	0.2233	3.5300e-003	0.2268	0.0000	631.9476	631.9476	0.0145	0.0158	637.0085
Total	0.2637	1.1880	2.6533	0.0119	1.0296	0.0123	1.0419	0.2777	0.0116	0.2893	0.0000	1,126.7699	1,126.7699	0.0197	0.0888	1,153.7324

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1825	0.1085	3.4000e-004		6.5300e-003	6.5300e-003		6.0100e-003	6.0100e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813
Total	0.0171	0.1825	0.1085	3.4000e-004	0.0530	6.5300e-003	0.0596	5.7300e-003	6.0100e-003	0.0117	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.9 2nd Move In - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535
Total	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535

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					0.0207	0.0000	0.0207	2.2300e-003	0.0000	2.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-003	0.1313	0.1830	3.4000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813
Total	7.2000e-003	0.1313	0.1830	3.4000e-004	0.0207	3.7100e-003	0.0244	2.2300e-003	3.7100e-003	5.9400e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.9 2nd Move In - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535
Total	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.3934	0.2704	8.3000e-004		0.0146	0.0146		0.0134	0.0134	0.0000	72.5928	72.5928	0.0235	0.0000	73.1797
Total	0.0389	0.3934	0.2704	8.3000e-004	0.1061	0.0146	0.1207	0.0115	0.0134	0.0249	0.0000	72.5928	72.5928	0.0235	0.0000	73.1797

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.10 3rd Move In - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649
Total	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649

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					0.0414	0.0000	0.0414	4.4700e-003	0.0000	4.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0179	0.3340	0.4528	8.3000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	72.5927	72.5927	0.0235	0.0000	73.1797
Total	0.0179	0.3340	0.4528	8.3000e-004	0.0414	0.0111	0.0524	4.4700e-003	0.0111	0.0155	0.0000	72.5927	72.5927	0.0235	0.0000	73.1797

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.10 3rd Move In - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649
Total	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0272	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0723	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.11 Offsite Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348
Total	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348

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	0.0154	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0605	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.11 Offsite Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348
Total	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0642	0.6191	0.9507	1.4800e-003		0.0305	0.0305		0.0280	0.0280	0.0000	130.1725	130.1725	0.0421	0.0000	131.2250
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1093	0.6191	0.9507	1.4800e-003		0.0305	0.0305		0.0280	0.0280	0.0000	130.1725	130.1725	0.0421	0.0000	131.2250

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.12 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185
Total	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185

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	0.0365	0.7342	1.1242	1.4800e-003		0.0396	0.0396		0.0396	0.0396	0.0000	130.1723	130.1723	0.0421	0.0000	131.2248
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0816	0.7342	1.1242	1.4800e-003		0.0396	0.0396		0.0396	0.0396	0.0000	130.1723	130.1723	0.0421	0.0000	131.2248

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.12 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185
Total	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.1056	0.1569	2.6000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1594
Total	0.9844	0.1056	0.1569	2.6000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1594

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.13 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430
Total	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430

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	0.9687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.1176	0.1588	2.6000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1593
Total	0.9739	0.1176	0.1588	2.6000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1593

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

3.13 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430
Total	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Meniffee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Unmitigated	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Total	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Total	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

Equipment Type	Number
----------------	--------

11.0 Vegetation

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

**14616 Menifee Commerce Construction Unmitigated
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Construction schedule based on Project-specific data.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment -
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment -

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Per Rule 1113

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	1.0506	9.3389	9.3595	0.0328	2.5690	0.3274	2.8964	0.8305	0.3043	1.1348	0.0000	3,027.4321	3,027.4321	0.3292	0.2052	3,096.8197
2024	4.7223	4.2633	6.7325	0.0193	1.2480	0.1522	1.4002	0.3190	0.1422	0.4612	0.0000	1,779.4250	1,779.4250	0.1761	0.0909	1,810.9257
Maximum	4.7223	9.3389	9.3595	0.0328	2.5690	0.3274	2.8964	0.8305	0.3043	1.1348	0.0000	3,027.4321	3,027.4321	0.3292	0.2052	3,096.8197

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.6170	7.2135	10.6278	0.0328	1.9084	0.2184	2.1268	0.5689	0.2170	0.7859	0.0000	3,027.4309	3,027.4309	0.3292	0.2052	3,096.8185
2024	4.5529	4.4718	7.3852	0.0193	1.1833	0.2001	1.3834	0.3120	0.1994	0.5114	0.0000	1,779.4243	1,779.4243	0.1761	0.0909	1,810.9250
Maximum	4.5529	7.2135	10.6278	0.0328	1.9084	0.2184	2.1268	0.5689	0.2170	0.7859	0.0000	3,027.4309	3,027.4309	0.3292	0.2052	3,096.8185

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.45	14.09	-11.94	0.00	19.00	12.74	18.30	23.36	6.75	18.72	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)
5	12-23-2022	3-22-2023	2.8850	1.7645
6	3-23-2023	6-22-2023	3.9312	2.4658
7	6-23-2023	9-22-2023	2.3755	2.1053
8	9-23-2023	12-22-2023	2.1547	2.0174
9	12-23-2023	3-22-2024	2.2676	2.1837
10	3-23-2024	6-22-2024	1.8580	1.8709
11	6-23-2024	9-22-2024	1.8629	2.0080
12	9-23-2024	9-30-2024	0.3672	0.3674
		Highest	3.9312	2.4658

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9700e-003	1.9000e-004	0.0213	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9700e-003	1.9000e-004	0.0213	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

	ROG	NOx	CO	SO2	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	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55
11	Paving	Paving	6/11/2024	9/9/2024	5	65
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42
Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2300e-003	0.0000	4.2300e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0250	0.2363	0.2161	4.3000e-004		0.0110	0.0110		0.0102	0.0102	0.0000	37.3913	37.3913	0.0105	0.0000	37.6531
Total	0.0250	0.2363	0.2161	4.3000e-004	4.2300e-003	0.0110	0.0152	6.4000e-004	0.0102	0.0109	0.0000	37.3913	37.3913	0.0105	0.0000	37.6531

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.2 Demolition - 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	4.0000e-005	2.0500e-003	5.4000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0387	1.0387	1.0000e-005	1.6000e-004	1.0879
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	5.4000e-004	4.0000e-004	5.1800e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3965	1.3965	3.0000e-005	4.0000e-005	1.4082
Total	5.8000e-004	2.4500e-003	5.7200e-003	3.0000e-005	2.1500e-003	3.0000e-005	2.1800e-003	5.7000e-004	3.0000e-005	6.0000e-004	0.0000	2.4352	2.4352	4.0000e-005	2.0000e-004	2.4961

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6500e-003	0.0000	1.6500e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.2014	0.2714	4.3000e-004		9.4900e-003	9.4900e-003		9.4900e-003	9.4900e-003	0.0000	37.3912	37.3912	0.0105	0.0000	37.6530
Total	0.0102	0.2014	0.2714	4.3000e-004	1.6500e-003	9.4900e-003	0.0111	2.5000e-004	9.4900e-003	9.7400e-003	0.0000	37.3912	37.3912	0.0105	0.0000	37.6530

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.2 Demolition - 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	4.0000e-005	2.0500e-003	5.4000e-004	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.0387	1.0387	1.0000e-005	1.6000e-004	1.0879
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	5.4000e-004	4.0000e-004	5.1800e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3965	1.3965	3.0000e-005	4.0000e-005	1.4082
Total	5.8000e-004	2.4500e-003	5.7200e-003	3.0000e-005	2.1500e-003	3.0000e-005	2.1800e-003	5.7000e-004	3.0000e-005	6.0000e-004	0.0000	2.4352	2.4352	4.0000e-005	2.0000e-004	2.4961

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	0.0126	7.1400e-003	3.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205
Total	1.2800e-003	0.0126	7.1400e-003	3.0000e-005	0.0000	4.2000e-004	4.2000e-004	0.0000	3.9000e-004	3.9000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.3 Clear Site - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896
Total	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.3000e-004	0.0142	0.0159	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205
Total	7.3000e-004	0.0142	0.0159	3.0000e-005	0.0000	5.4000e-004	5.4000e-004	0.0000	5.4000e-004	5.4000e-004	0.0000	2.5994	2.5994	8.4000e-004	0.0000	2.6205

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.3 Clear Site - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896
Total	3.0000e-005	3.0000e-005	3.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0889	0.0889	0.0000	0.0000	0.0896

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0369	0.3780	0.2001	5.3000e-004		0.0171	0.0171		0.0158	0.0158	0.0000	46.6157	46.6157	0.0151	0.0000	46.9927
Total	0.0369	0.3780	0.2001	5.3000e-004	0.0849	0.0171	0.1021	0.0291	0.0158	0.0449	0.0000	46.6157	46.6157	0.0151	0.0000	46.9927

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.4 Recompect - 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	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923
Total	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923

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					0.0331	0.0000	0.0331	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0700e-003	0.1493	0.2931	5.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	46.6157	46.6157	0.0151	0.0000	46.9926
Total	9.0700e-003	0.1493	0.2931	5.3000e-004	0.0331	1.7000e-003	0.0348	0.0114	1.7000e-003	0.0131	0.0000	46.6157	46.6157	0.0151	0.0000	46.9926

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.4 Recompact - 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	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923
Total	6.8000e-004	5.0000e-004	6.5900e-003	2.0000e-005	2.3100e-003	1.0000e-005	2.3200e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.7773	1.7773	4.0000e-005	5.0000e-005	1.7923

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5054	0.0000	0.5054	0.2067	0.0000	0.2067	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2684	2.8156	1.9808	4.8900e-003		0.1140	0.1140		0.1048	0.1048	0.0000	429.2270	429.2270	0.1388	0.0000	432.6975
Total	0.2684	2.8156	1.9808	4.8900e-003	0.5054	0.1140	0.6194	0.2067	0.1048	0.3115	0.0000	429.2270	429.2270	0.1388	0.0000	432.6975

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.5 Recompact and Import - 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	0.0230	1.1464	0.3014	5.9800e-003	0.1877	0.0131	0.2008	0.0515	0.0126	0.0641	0.0000	579.6376	579.6376	8.1800e-003	0.0913	607.0605
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	3.0500e-003	2.2600e-003	0.0295	9.0000e-005	0.0103	5.0000e-005	0.0104	2.7400e-003	5.0000e-005	2.7900e-003	0.0000	7.9598	7.9598	2.0000e-004	2.1000e-004	8.0269
Total	0.0261	1.1487	0.3310	6.0700e-003	0.1980	0.0132	0.2112	0.0543	0.0126	0.0669	0.0000	587.5974	587.5974	8.3800e-003	0.0916	615.0873

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					0.1971	0.0000	0.1971	0.0806	0.0000	0.0806	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0845	1.4132	2.6152	4.8900e-003		0.0187	0.0187		0.0187	0.0187	0.0000	429.2265	429.2265	0.1388	0.0000	432.6970
Total	0.0845	1.4132	2.6152	4.8900e-003	0.1971	0.0187	0.2158	0.0806	0.0187	0.0993	0.0000	429.2265	429.2265	0.1388	0.0000	432.6970

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.5 Recompact and Import - 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	0.0230	1.1464	0.3014	5.9800e-003	0.1877	0.0131	0.2008	0.0515	0.0126	0.0641	0.0000	579.6376	579.6376	8.1800e-003	0.0913	607.0605
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	3.0500e-003	2.2600e-003	0.0295	9.0000e-005	0.0103	5.0000e-005	0.0104	2.7400e-003	5.0000e-005	2.7900e-003	0.0000	7.9598	7.9598	2.0000e-004	2.1000e-004	8.0269
Total	0.0261	1.1487	0.3310	6.0700e-003	0.1980	0.0132	0.2112	0.0543	0.0126	0.0669	0.0000	587.5974	587.5974	8.3800e-003	0.0916	615.0873

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0849	0.0000	0.0849	0.0291	0.0000	0.0291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3369	0.2201	5.7000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	49.9975	49.9975	0.0162	0.0000	50.4017
Total	0.0316	0.3369	0.2201	5.7000e-004	0.0849	0.0133	0.0982	0.0291	0.0122	0.0413	0.0000	49.9975	49.9975	0.0162	0.0000	50.4017

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.6 Fine Grade - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602
Total	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602

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					0.0331	0.0000	0.0331	0.0114	0.0000	0.0114	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1741	0.3027	5.7000e-004		2.7900e-003	2.7900e-003		2.7900e-003	2.7900e-003	0.0000	49.9974	49.9974	0.0162	0.0000	50.4017
Total	0.0102	0.1741	0.3027	5.7000e-004	0.0331	2.7900e-003	0.0359	0.0114	2.7900e-003	0.0142	0.0000	49.9974	49.9974	0.0162	0.0000	50.4017

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.6 Fine Grade - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602
Total	3.7000e-004	2.7000e-004	3.5300e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9521	0.9521	2.0000e-005	2.0000e-005	0.9602

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3505	0.0000	0.3505	0.1576	0.0000	0.1576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0520	0.5016	0.2875	5.7000e-004		0.0286	0.0286		0.0263	0.0263	0.0000	50.1666	50.1666	0.0162	0.0000	50.5723
Total	0.0520	0.5016	0.2875	5.7000e-004	0.3505	0.0286	0.3791	0.1576	0.0263	0.1839	0.0000	50.1666	50.1666	0.0162	0.0000	50.5723

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.7 Offsite Site Prep - 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	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044
Total	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044

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					0.1367	0.0000	0.1367	0.0614	0.0000	0.0614	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2860	0.3444	5.7000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	50.1666	50.1666	0.0162	0.0000	50.5722
Total	0.0140	0.2860	0.3444	5.7000e-004	0.1367	0.0142	0.1509	0.0614	0.0142	0.0756	0.0000	50.1666	50.1666	0.0162	0.0000	50.5722

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.7 Offsite Site Prep - 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	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044
Total	8.8000e-004	6.5000e-004	8.4800e-003	2.0000e-005	2.9700e-003	1.0000e-005	2.9800e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.2851	2.2851	6.0000e-005	6.0000e-005	2.3044

3.8 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	0.2410	2.2230	2.4927	4.1500e-003		0.1077	0.1077		0.1012	0.1012	0.0000	357.6976	357.6976	0.0871	0.0000	359.8760
Total	0.2410	2.2230	2.4927	4.1500e-003		0.1077	0.1077		0.1012	0.1012	0.0000	357.6976	357.6976	0.0871	0.0000	359.8760

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.8 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	0.0402	1.2713	0.5065	6.4900e-003	0.2343	0.0106	0.2448	0.0676	0.0101	0.0777	0.0000	623.8729	623.8729	6.3100e-003	0.0923	651.5209
Worker	0.3083	0.2284	2.9814	8.6600e-003	1.0438	4.9800e-003	1.0488	0.2772	4.5800e-003	0.2818	0.0000	803.7442	803.7442	0.0198	0.0211	810.5206
Total	0.3485	1.4997	3.4878	0.0152	1.2781	0.0156	1.2936	0.3448	0.0147	0.3595	0.0000	1,427.6171	1,427.6171	0.0261	0.1133	1,462.0415

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	0.1037	2.1916	2.7556	4.1500e-003		0.1386	0.1386		0.1386	0.1386	0.0000	357.6972	357.6972	0.0871	0.0000	359.8755
Total	0.1037	2.1916	2.7556	4.1500e-003		0.1386	0.1386		0.1386	0.1386	0.0000	357.6972	357.6972	0.0871	0.0000	359.8755

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.8 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	0.0402	1.2713	0.5065	6.4900e-003	0.2343	0.0106	0.2448	0.0676	0.0101	0.0777	0.0000	623.8729	623.8729	6.3100e-003	0.0923	651.5209
Worker	0.3083	0.2284	2.9814	8.6600e-003	1.0438	4.9800e-003	1.0488	0.2772	4.5800e-003	0.2818	0.0000	803.7442	803.7442	0.0198	0.0211	810.5206
Total	0.3485	1.4997	3.4878	0.0152	1.2781	0.0156	1.2936	0.3448	0.0147	0.3595	0.0000	1,427.6171	1,427.6171	0.0261	0.1133	1,462.0415

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1818	1.6733	1.9983	3.3500e-003		0.0762	0.0762		0.0715	0.0715	0.0000	288.2041	288.2041	0.0698	0.0000	289.9498
Total	0.1818	1.6733	1.9983	3.3500e-003		0.0762	0.0762		0.0715	0.0715	0.0000	288.2041	288.2041	0.0698	0.0000	289.9498

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.8 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0319	1.0242	0.4034	5.1400e-003	0.1887	8.4500e-003	0.1972	0.0544	8.0900e-003	0.0625	0.0000	494.8223	494.8223	5.2600e-003	0.0731	516.7239
Worker	0.2319	0.1638	2.2499	6.7500e-003	0.8409	3.8300e-003	0.8447	0.2233	3.5300e-003	0.2268	0.0000	631.9476	631.9476	0.0145	0.0158	637.0085
Total	0.2637	1.1880	2.6533	0.0119	1.0296	0.0123	1.0419	0.2777	0.0116	0.2893	0.0000	1,126.7699	1,126.7699	0.0197	0.0888	1,153.7324

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	0.0835	1.7654	2.2198	3.3500e-003		0.1116	0.1116		0.1116	0.1116	0.0000	288.2038	288.2038	0.0698	0.0000	289.9494
Total	0.0835	1.7654	2.2198	3.3500e-003		0.1116	0.1116		0.1116	0.1116	0.0000	288.2038	288.2038	0.0698	0.0000	289.9494

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.8 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0319	1.0242	0.4034	5.1400e-003	0.1887	8.4500e-003	0.1972	0.0544	8.0900e-003	0.0625	0.0000	494.8223	494.8223	5.2600e-003	0.0731	516.7239
Worker	0.2319	0.1638	2.2499	6.7500e-003	0.8409	3.8300e-003	0.8447	0.2233	3.5300e-003	0.2268	0.0000	631.9476	631.9476	0.0145	0.0158	637.0085
Total	0.2637	1.1880	2.6533	0.0119	1.0296	0.0123	1.0419	0.2777	0.0116	0.2893	0.0000	1,126.7699	1,126.7699	0.0197	0.0888	1,153.7324

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1825	0.1085	3.4000e-004		6.5300e-003	6.5300e-003		6.0100e-003	6.0100e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813
Total	0.0171	0.1825	0.1085	3.4000e-004	0.0530	6.5300e-003	0.0596	5.7300e-003	6.0100e-003	0.0117	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.9 2nd Move In - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535
Total	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535

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					0.0207	0.0000	0.0207	2.2300e-003	0.0000	2.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2000e-003	0.1313	0.1830	3.4000e-004		3.7100e-003	3.7100e-003		3.7100e-003	3.7100e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813
Total	7.2000e-003	0.1313	0.1830	3.4000e-004	0.0207	3.7100e-003	0.0244	2.2300e-003	3.7100e-003	5.9400e-003	0.0000	30.1376	30.1376	9.7500e-003	0.0000	30.3813

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.9 2nd Move In - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535
Total	3.2000e-004	2.4000e-004	3.1400e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	0.0000	3.0000e-004	0.0000	0.8463	0.8463	2.0000e-005	2.0000e-005	0.8535

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.3934	0.2704	8.3000e-004		0.0146	0.0146		0.0134	0.0134	0.0000	72.5928	72.5928	0.0235	0.0000	73.1797
Total	0.0389	0.3934	0.2704	8.3000e-004	0.1061	0.0146	0.1207	0.0115	0.0134	0.0249	0.0000	72.5928	72.5928	0.0235	0.0000	73.1797

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.10 3rd Move In - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649
Total	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649

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					0.0414	0.0000	0.0414	4.4700e-003	0.0000	4.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0179	0.3340	0.4528	8.3000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	72.5927	72.5927	0.0235	0.0000	73.1797
Total	0.0179	0.3340	0.4528	8.3000e-004	0.0414	0.0111	0.0524	4.4700e-003	0.0111	0.0155	0.0000	72.5927	72.5927	0.0235	0.0000	73.1797

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.10 3rd Move In - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649
Total	7.9000e-004	5.6000e-004	7.6500e-003	2.0000e-005	2.8600e-003	1.0000e-005	2.8700e-003	7.6000e-004	1.0000e-005	7.7000e-004	0.0000	2.1477	2.1477	5.0000e-005	5.0000e-005	2.1649

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0272	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0723	0.2619	0.4022	6.3000e-004		0.0129	0.0129		0.0119	0.0119	0.0000	55.0730	55.0730	0.0178	0.0000	55.5183

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.11 Offsite Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348
Total	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348

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	0.0154	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0605	0.3106	0.4756	6.3000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	55.0729	55.0729	0.0178	0.0000	55.5182

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.11 Offsite Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348
Total	1.2500e-003	8.8000e-004	0.0121	4.0000e-005	4.5300e-003	2.0000e-005	4.5500e-003	1.2000e-003	2.0000e-005	1.2200e-003	0.0000	3.4075	3.4075	8.0000e-005	9.0000e-005	3.4348

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0642	0.6191	0.9507	1.4800e-003		0.0305	0.0305		0.0280	0.0280	0.0000	130.1725	130.1725	0.0421	0.0000	131.2250
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1093	0.6191	0.9507	1.4800e-003		0.0305	0.0305		0.0280	0.0280	0.0000	130.1725	130.1725	0.0421	0.0000	131.2250

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.12 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185
Total	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185

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	0.0365	0.7342	1.1242	1.4800e-003		0.0396	0.0396		0.0396	0.0396	0.0000	130.1723	130.1723	0.0421	0.0000	131.2248
Paving	0.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0816	0.7342	1.1242	1.4800e-003		0.0396	0.0396		0.0396	0.0396	0.0000	130.1723	130.1723	0.0421	0.0000	131.2248

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.12 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185
Total	2.9600e-003	2.0900e-003	0.0287	9.0000e-005	0.0107	5.0000e-005	0.0108	2.8500e-003	4.0000e-005	2.8900e-003	0.0000	8.0540	8.0540	1.8000e-004	2.0000e-004	8.1185

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.0095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0157	0.1056	0.1569	2.6000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1594
Total	4.0252	0.1056	0.1569	2.6000e-004		5.2800e-003	5.2800e-003		5.2800e-003	5.2800e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1594

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.13 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430
Total	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430

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	4.0095					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1500e-003	0.1176	0.1588	2.6000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1593
Total	4.0147	0.1176	0.1588	2.6000e-004		8.2400e-003	8.2400e-003		8.2400e-003	8.2400e-003	0.0000	22.1282	22.1282	1.2500e-003	0.0000	22.1593

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

3.13 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430
Total	0.0260	0.0184	0.2523	7.6000e-004	0.0943	4.3000e-004	0.0947	0.0250	4.0000e-004	0.0254	0.0000	70.8754	70.8754	1.6200e-003	1.7700e-003	71.4430

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Unmitigated	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Total	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443
Total	1.9700e-003	1.9000e-004	0.0213	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0416	0.0416	1.1000e-004	0.0000	0.0443

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

14616 Menifee Commerce Construction Mitigated

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on Project-specific data.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Project will utilize super-compliant architectural coatings.

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	12.2787	136.9975	109.7637	0.3845	41.6119	4.4605	45.2314	15.4164	4.1205	18.7811	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57
2024	31.1887	68.0261	100.5768	0.3144	23.4896	2.2554	25.7451	5.4708	2.1057	7.5765	0.0000	31,952.06 66	31,952.06 66	2.9989	1.6764	32,526.61 92
Maximum	31.1887	136.9975	109.7637	0.3845	41.6119	4.4605	45.2314	15.4164	4.1205	18.7811	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.8366	87.7907	117.2089	0.3845	27.3569	3.0871	30.4440	9.0094	3.0751	12.0845	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57
2024	30.8652	66.6444	113.5150	0.3144	20.2551	2.6900	22.9451	5.1216	2.6784	7.8000	0.0000	31,952.06 65	31,952.06 65	2.9989	1.6764	32,526.61 92
Maximum	30.8652	87.7907	117.2089	0.3845	27.3569	3.0871	30.4440	9.0094	3.0751	12.0845	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	10.96	24.67	-9.69	0.00	26.86	13.98	24.78	32.35	7.59	24.56	0.00	0.00	0.00	0.00	0.00	0.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

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	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	
4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57	
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15	
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30	
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260	
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20	
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40	
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55	
11	Paving	Paving	6/11/2024	9/9/2024	5	65	
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37
Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3842	0.0000	0.3842	0.0582	0.0000	0.0582			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.3842	0.9975	1.3817	0.0582	0.9280	0.9862		3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.8800e-003	0.1770	0.0487	9.7000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0400e-003	0.0106		104.0229	104.0229	1.4800e-003	0.0164	108.9444
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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0587	0.2109	0.5990	2.4400e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7600e-003	0.0557		254.9533	254.9533	4.9300e-003	0.0199	261.0096

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1498	0.0000	0.1498	0.0227	0.0000	0.0227			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	0.9246	18.3130	24.6739	0.0388	0.1498	0.8627	1.0126	0.0227	0.8627	0.8854	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.8800e-003	0.1770	0.0487	9.7000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0400e-003	0.0106		104.0229	104.0229	1.4800e-003	0.0164	108.9444
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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0587	0.2109	0.5990	2.4400e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7600e-003	0.0557		254.9533	254.9533	4.9300e-003	0.0199	261.0096

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3657	3.5890	2.0411	8.4600e-003		0.1202	0.1202		0.1106	0.1106		818.6842	818.6842	0.2648		825.3037
Total	0.3657	3.5890	2.0411	8.4600e-003	0.0000	0.1202	0.1202	0.0000	0.1106	0.1106		818.6842	818.6842	0.2648		825.3037

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	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131
Total	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.3 Clear Site - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2091	4.0427	4.5306	8.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037
Total	0.2091	4.0427	4.5306	8.4600e-003	0.0000	0.1533	0.1533	0.0000	0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037

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	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131
Total	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.9148	50.3941	26.6840	0.0707		2.2824	2.2824		2.0998	2.0998		6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	4.9148	50.3941	26.6840	0.0707	11.3246	2.2824	13.6070	3.8828	2.0998	5.9826		6,851.340 1	6,851.340 1	2.2159		6,906.736 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552
Total	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.4 Recompect - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.2089	19.9004	39.0759	0.0707		0.2268	0.2268		0.2268	0.2268	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	1.2089	19.9004	39.0759	0.0707	4.4166	0.2268	4.6434	1.5143	0.2268	1.7411	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 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	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552
Total	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					17.7335	0.0000	17.7335	7.2516	0.0000	7.2516			0.0000			0.0000
Off-Road	9.4190	98.7942	69.5014	0.1715		3.9985	3.9985		3.6787	3.6787		16,601.46 58	16,601.46 58	5.3693		16,735.69 71
Total	9.4190	98.7942	69.5014	0.1715	17.7335	3.9985	21.7320	7.2516	3.6787	10.9302		16,601.46 58	16,601.46 58	5.3693		16,735.69 71

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	0.8355	38.1288	10.4849	0.2098	6.6823	0.4602	7.1425	1.8320	0.4403	2.2723		22,404.27 10	22,404.27 10	0.3178	3.5303	23,464.25 50
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	0.1206	0.0745	1.2106	3.2400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		332.0470	332.0470	7.5800e-003	7.7400e-003	334.5436
Total	0.9561	38.2033	11.6955	0.2130	7.0512	0.4619	7.5131	1.9298	0.4419	2.3717		22,736.31 80	22,736.31 80	0.3254	3.5381	23,798.79 86

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.5 Recompact and Import - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9161	0.0000	6.9161	2.8281	0.0000	2.8281			0.0000			0.0000
Off-Road	2.9661	49.5875	91.7625	0.1715		0.6549	0.6549		0.6549	0.6549	0.0000	16,601.46 58	16,601.46 58	5.3693		16,735.69 70
Total	2.9661	49.5875	91.7625	0.1715	6.9161	0.6549	7.5710	2.8281	0.6549	3.4830	0.0000	16,601.46 58	16,601.46 58	5.3693		16,735.69 70

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	0.8355	38.1288	10.4849	0.2098	6.6823	0.4602	7.1425	1.8320	0.4403	2.2723		22,404.27 10	22,404.27 10	0.3178	3.5303	23,464.25 50
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	0.1206	0.0745	1.2106	3.2400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		332.0470	332.0470	7.5800e-003	7.7400e-003	334.5436
Total	0.9561	38.2033	11.6955	0.2130	7.0512	0.4619	7.5131	1.9298	0.4419	2.3717		22,736.31 80	22,736.31 80	0.3254	3.5381	23,798.79 86

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.2152	44.9138	29.3470	0.0759		1.7708	1.7708		1.6292	1.6292		7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	4.2152	44.9138	29.3470	0.0759	11.3246	1.7708	13.0954	3.8828	1.6292	5.5119		7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.6 Fine Grade - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.3656	23.2116	40.3585	0.0759		0.3718	0.3718		0.3718	0.3718	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	1.3656	23.2116	40.3585	0.0759	4.4166	0.3718	4.7884	1.5143	0.3718	1.8860	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	3.4666	33.4389	19.1668	0.0380		1.9067	1.9067		1.7542	1.7542		3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	3.4666	33.4389	19.1668	0.0380	23.3688	1.9067	25.2755	10.5032	1.7542	12.2574		3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.7 Offsite Site Prep - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	0.9312	19.0656	22.9600	0.0380	9.1138	0.9462	10.0600	4.0963	0.9462	5.0424	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.8 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5805	16.8254	6.9279	0.0900	3.2986	0.1465	3.4451	0.9498	0.1402	1.0899		9,541.4566	9,541.4566	0.0973	1.4099	9,964.0516
Worker	4.8190	2.9778	48.3886	0.1297	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		13,271.8177	13,271.8177	0.3030	0.3094	13,371.6054
Total	5.3995	19.8032	55.3165	0.2197	18.0419	0.2157	18.2576	4.8598	0.2039	5.0636		22,813.2743	22,813.2743	0.4003	1.7194	23,335.6570

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.8 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	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5805	16.8254	6.9279	0.0900	3.2986	0.1465	3.4451	0.9498	0.1402	1.0899		9,541.4566	9,541.4566	0.0973	1.4099	9,964.0516
Worker	4.8190	2.9778	48.3886	0.1297	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		13,271.8177	13,271.8177	0.3030	0.3094	13,371.6054
Total	5.3995	19.8032	55.3165	0.2197	18.0419	0.2157	18.2576	4.8598	0.2039	5.0636		22,813.2743	22,813.2743	0.4003	1.7194	23,335.6570

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5714	16.8267	6.8485	0.0886	3.2985	0.1456	3.4441	0.9497	0.1392	1.0890		9,394.4023	9,394.4023	0.1007	1.3861	9,809.9840
Worker	4.4928	2.6537	45.3091	0.1256	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		12,951.5968	12,951.5968	0.2744	0.2875	13,044.1287
Total	5.0641	19.4805	52.1576	0.2141	18.0418	0.2117	18.2535	4.8597	0.2001	5.0598		22,345.9992	22,345.9992	0.3752	1.6736	22,854.1128

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.8 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5714	16.8267	6.8485	0.0886	3.2985	0.1456	3.4441	0.9497	0.1392	1.0890		9,394.4023	9,394.4023	0.1007	1.3861	9,809.9840
Worker	4.4928	2.6537	45.3091	0.1256	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		12,951.5968	12,951.5968	0.2744	0.2875	13,044.1287
Total	5.0641	19.4805	52.1576	0.2141	18.0418	0.2117	18.2535	4.8597	0.2001	5.0598		22,345.9992	22,345.9992	0.3752	1.6736	22,854.1128

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.7112	18.2458	10.8492	0.0343		0.6533	0.6533		0.6011	0.6011		3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	1.7112	18.2458	10.8492	0.0343	5.3025	0.6533	5.9558	0.5726	0.6011	1.1736		3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768
Total	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.9 2nd Move In - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.7202	13.1257	18.2962	0.0343		0.3707	0.3707		0.3707	0.3707	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	0.7202	13.1257	18.2962	0.0343	2.0680	0.3707	2.4387	0.2233	0.3707	0.5940	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768
Total	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.9471	19.6697	13.5186	0.0413		0.7302	0.7302		0.6718	0.6718		4,000.9924	4,000.9924	1.2940		4,033.3425
Total	1.9471	19.6697	13.5186	0.0413	5.3025	0.7302	6.0327	0.5726	0.6718	1.2443		4,000.9924	4,000.9924	1.2940		4,033.3425

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	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623
Total	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.10 3rd Move In - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.8934	16.6996	22.6388	0.0413		0.5535	0.5535		0.5535	0.5535	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 4
Total	0.8934	16.6996	22.6388	0.0413	2.0680	0.5535	2.6215	0.2233	0.5535	0.7768	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 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	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623
Total	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6283	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

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

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.11 Offsite Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2011	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

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

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9763	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3641	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822
Total	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.12 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1219	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5097	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822
Total	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.8075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	30.2895	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036
Total	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

3.13 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.8075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847
Total	29.9660	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847

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	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036
Total	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Unmitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

14616 Menifee Commerce Construction Unmitigated

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on Project-specific data.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Per Rule 1113

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	12.2787	136.9975	109.7637	0.3845	41.6119	4.4605	45.2314	15.4164	4.1205	18.7811	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57
2024	124.7519	68.0261	100.5768	0.3144	23.4896	2.2554	25.7451	5.4708	2.1057	7.5765	0.0000	31,952.06 66	31,952.06 66	2.9989	1.6764	32,526.61 92
Maximum	124.7519	136.9975	109.7637	0.3845	41.6119	4.4605	45.2314	15.4164	4.1205	18.7811	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.8366	87.7907	117.2089	0.3845	27.3569	3.0871	30.4440	9.0094	3.0751	12.0845	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57
2024	124.4283	66.6444	113.5150	0.3144	20.2551	2.6900	22.9451	5.1216	2.6784	7.8000	0.0000	31,952.06 65	31,952.06 65	2.9989	1.6764	32,526.61 92
Maximum	124.4283	87.7907	117.2089	0.3845	27.3569	3.0871	30.4440	9.0094	3.0751	12.0845	0.0000	39,337.78 38	39,337.78 38	5.6946	3.5381	40,534.49 57

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.48	24.67	-9.69	0.00	26.86	13.98	24.78	32.35	7.59	24.56	0.00	0.00	0.00	0.00	0.00	0.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

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	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	
4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57	
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15	
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30	
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260	
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20	
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40	
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55	
11	Paving	Paving	6/11/2024	9/9/2024	5	65	
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37
Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3842	0.0000	0.3842	0.0582	0.0000	0.0582			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.3842	0.9975	1.3817	0.0582	0.9280	0.9862		3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.8800e-003	0.1770	0.0487	9.7000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0400e-003	0.0106		104.0229	104.0229	1.4800e-003	0.0164	108.9444
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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0587	0.2109	0.5990	2.4400e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7600e-003	0.0557		254.9533	254.9533	4.9300e-003	0.0199	261.0096

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1498	0.0000	0.1498	0.0227	0.0000	0.0227			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	0.9246	18.3130	24.6739	0.0388	0.1498	0.8627	1.0126	0.0227	0.8627	0.8854	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.8800e-003	0.1770	0.0487	9.7000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0400e-003	0.0106		104.0229	104.0229	1.4800e-003	0.0164	108.9444
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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0587	0.2109	0.5990	2.4400e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7600e-003	0.0557		254.9533	254.9533	4.9300e-003	0.0199	261.0096

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3657	3.5890	2.0411	8.4600e-003		0.1202	0.1202		0.1106	0.1106		818.6842	818.6842	0.2648		825.3037
Total	0.3657	3.5890	2.0411	8.4600e-003	0.0000	0.1202	0.1202	0.0000	0.1106	0.1106		818.6842	818.6842	0.2648		825.3037

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	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131
Total	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.3 Clear Site - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2091	4.0427	4.5306	8.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037
Total	0.2091	4.0427	4.5306	8.4600e-003	0.0000	0.1533	0.1533	0.0000	0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037

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	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131
Total	0.0110	6.7700e-003	0.1101	2.9000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		30.1861	30.1861	6.9000e-004	7.0000e-004	30.4131

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.9148	50.3941	26.6840	0.0707		2.2824	2.2824		2.0998	2.0998		6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	4.9148	50.3941	26.6840	0.0707	11.3246	2.2824	13.6070	3.8828	2.0998	5.9826		6,851.340 1	6,851.340 1	2.2159		6,906.736 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552
Total	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.4 Recompect - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.2089	19.9004	39.0759	0.0707		0.2268	0.2268		0.2268	0.2268	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	1.2089	19.9004	39.0759	0.0707	4.4166	0.2268	4.6434	1.5143	0.2268	1.7411	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 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	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552
Total	0.1023	0.0632	1.0272	2.7500e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		281.7368	281.7368	6.4300e-003	6.5700e-003	283.8552

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					17.7335	0.0000	17.7335	7.2516	0.0000	7.2516			0.0000			0.0000
Off-Road	9.4190	98.7942	69.5014	0.1715		3.9985	3.9985		3.6787	3.6787		16,601.46 58	16,601.46 58	5.3693		16,735.69 71
Total	9.4190	98.7942	69.5014	0.1715	17.7335	3.9985	21.7320	7.2516	3.6787	10.9302		16,601.46 58	16,601.46 58	5.3693		16,735.69 71

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	0.8355	38.1288	10.4849	0.2098	6.6823	0.4602	7.1425	1.8320	0.4403	2.2723		22,404.27 10	22,404.27 10	0.3178	3.5303	23,464.25 50
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	0.1206	0.0745	1.2106	3.2400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		332.0470	332.0470	7.5800e-003	7.7400e-003	334.5436
Total	0.9561	38.2033	11.6955	0.2130	7.0512	0.4619	7.5131	1.9298	0.4419	2.3717		22,736.31 80	22,736.31 80	0.3254	3.5381	23,798.79 86

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.5 Recompact and Import - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9161	0.0000	6.9161	2.8281	0.0000	2.8281			0.0000			0.0000
Off-Road	2.9661	49.5875	91.7625	0.1715		0.6549	0.6549		0.6549	0.6549	0.0000	16,601.4658	16,601.4658	5.3693		16,735.6970
Total	2.9661	49.5875	91.7625	0.1715	6.9161	0.6549	7.5710	2.8281	0.6549	3.4830	0.0000	16,601.4658	16,601.4658	5.3693		16,735.6970

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	0.8355	38.1288	10.4849	0.2098	6.6823	0.4602	7.1425	1.8320	0.4403	2.2723		22,404.2710	22,404.2710	0.3178	3.5303	23,464.2550
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	0.1206	0.0745	1.2106	3.2400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		332.0470	332.0470	7.5800e-003	7.7400e-003	334.5436
Total	0.9561	38.2033	11.6955	0.2130	7.0512	0.4619	7.5131	1.9298	0.4419	2.3717		22,736.3180	22,736.3180	0.3254	3.5381	23,798.7986

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.2152	44.9138	29.3470	0.0759		1.7708	1.7708		1.6292	1.6292		7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	4.2152	44.9138	29.3470	0.0759	11.3246	1.7708	13.0954	3.8828	1.6292	5.5119		7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.6 Fine Grade - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.3656	23.2116	40.3585	0.0759		0.3718	0.3718		0.3718	0.3718	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	1.3656	23.2116	40.3585	0.0759	4.4166	0.3718	4.7884	1.5143	0.3718	1.8860	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653
Total	0.0548	0.0339	0.5503	1.4700e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		150.9305	150.9305	3.4500e-003	3.5200e-003	152.0653

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	3.4666	33.4389	19.1668	0.0380		1.9067	1.9067		1.7542	1.7542		3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	3.4666	33.4389	19.1668	0.0380	23.3688	1.9067	25.2755	10.5032	1.7542	12.2574		3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.7 Offsite Site Prep - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	0.9312	19.0656	22.9600	0.0380	9.1138	0.9462	10.0600	4.0963	0.9462	5.0424	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783
Total	0.0658	0.0406	0.6603	1.7700e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		181.1165	181.1165	4.1400e-003	4.2200e-003	182.4783

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.8 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5805	16.8254	6.9279	0.0900	3.2986	0.1465	3.4451	0.9498	0.1402	1.0899		9,541.4566	9,541.4566	0.0973	1.4099	9,964.0516
Worker	4.8190	2.9778	48.3886	0.1297	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		13,271.8177	13,271.8177	0.3030	0.3094	13,371.6054
Total	5.3995	19.8032	55.3165	0.2197	18.0419	0.2157	18.2576	4.8598	0.2039	5.0636		22,813.2743	22,813.2743	0.4003	1.7194	23,335.6570

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.8 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	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5805	16.8254	6.9279	0.0900	3.2986	0.1465	3.4451	0.9498	0.1402	1.0899		9,541.4566	9,541.4566	0.0973	1.4099	9,964.0516
Worker	4.8190	2.9778	48.3886	0.1297	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		13,271.8177	13,271.8177	0.3030	0.3094	13,371.6054
Total	5.3995	19.8032	55.3165	0.2197	18.0419	0.2157	18.2576	4.8598	0.2039	5.0636		22,813.2743	22,813.2743	0.4003	1.7194	23,335.6570

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5714	16.8267	6.8485	0.0886	3.2985	0.1456	3.4441	0.9497	0.1392	1.0890		9,394.4023	9,394.4023	0.1007	1.3861	9,809.9840
Worker	4.4928	2.6537	45.3091	0.1256	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		12,951.5968	12,951.5968	0.2744	0.2875	13,044.1287
Total	5.0641	19.4805	52.1576	0.2141	18.0418	0.2117	18.2535	4.8597	0.2001	5.0598		22,345.9992	22,345.9992	0.3752	1.6736	22,854.1128

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.8 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5714	16.8267	6.8485	0.0886	3.2985	0.1456	3.4441	0.9497	0.1392	1.0890		9,394.4023	9,394.4023	0.1007	1.3861	9,809.9840
Worker	4.4928	2.6537	45.3091	0.1256	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		12,951.5968	12,951.5968	0.2744	0.2875	13,044.1287
Total	5.0641	19.4805	52.1576	0.2141	18.0418	0.2117	18.2535	4.8597	0.2001	5.0598		22,345.9992	22,345.9992	0.3752	1.6736	22,854.1128

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.7112	18.2458	10.8492	0.0343		0.6533	0.6533		0.6011	0.6011		3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	1.7112	18.2458	10.8492	0.0343	5.3025	0.6533	5.9558	0.5726	0.6011	1.1736		3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768
Total	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.9 2nd Move In - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.7202	13.1257	18.2962	0.0343		0.3707	0.3707		0.3707	0.3707	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	0.7202	13.1257	18.2962	0.0343	2.0680	0.3707	2.4387	0.2233	0.3707	0.5940	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768
Total	0.0365	0.0226	0.3669	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		100.6203	100.6203	2.3000e-003	2.3500e-003	101.3768

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.9471	19.6697	13.5186	0.0413		0.7302	0.7302		0.6718	0.6718		4,000.992 4	4,000.992 4	1.2940		4,033.342 5
Total	1.9471	19.6697	13.5186	0.0413	5.3025	0.7302	6.0327	0.5726	0.6718	1.2443		4,000.992 4	4,000.992 4	1.2940		4,033.342 5

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	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623
Total	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.10 3rd Move In - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.8934	16.6996	22.6388	0.0413		0.5535	0.5535		0.5535	0.5535	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 4
Total	0.8934	16.6996	22.6388	0.0413	2.0680	0.5535	2.6215	0.2233	0.5535	0.7768	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 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	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623
Total	0.0443	0.0262	0.4466	1.2400e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		127.6503	127.6503	2.7000e-003	2.8300e-003	128.5623

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6283	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

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

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.11 Offsite Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2011	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

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

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9763	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3641	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822
Total	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.12 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1219	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5097	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822
Total	0.1022	0.0604	1.0305	2.8600e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		294.5776	294.5776	6.2400e-003	6.5400e-003	296.6822

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.3706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	123.8526	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036
Total	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

3.13 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.3706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847
Total	123.5291	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847

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	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036
Total	0.8992	0.5312	9.0687	0.0251	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,592.2832	2,592.2832	0.0549	0.0575	2,610.8036

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Unmitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

**14616 Menifee Commerce Construction Mitigated
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Construction schedule based on Project-specific data.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment -
- Off-road Equipment - Equipment based on data provided by Project team.
- Off-road Equipment -

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Project will utilize super-compliant architectural coatings.

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	10.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	10.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11.9295	139.2722	100.7766	0.3845	41.6119	4.4611	45.2319	15.4164	4.1211	18.7816	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47
2024	31.1349	69.1450	92.2257	0.3027	23.4896	2.2559	25.7455	5.4708	2.1061	7.5770	0.0000	30,749.47 92	30,749.47 92	2.9966	1.6878	31,327.34 55
Maximum	31.1349	139.2722	100.7766	0.3845	41.6119	4.4611	45.2319	15.4164	4.1211	18.7816	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.4873	90.0655	108.2218	0.3845	27.3569	3.0876	30.4445	9.0094	3.0756	12.0850	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47
2024	30.8114	67.7633	105.1639	0.3027	20.2551	2.6905	22.9456	5.1216	2.6789	7.8005	0.0000	30,749.47 92	30,749.47 92	2.9966	1.6878	31,327.34 55
Maximum	30.8114	90.0655	108.2218	0.3845	27.3569	3.0876	30.4445	9.0094	3.0756	12.0850	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	11.07	24.27	-10.56	0.00	26.86	13.98	24.78	32.35	7.59	24.56	0.00	0.00	0.00	0.00	0.00	0.00

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

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	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	
4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57	
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15	
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30	
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260	
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20	
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40	
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55	
11	Paving	Paving	6/11/2024	9/9/2024	5	65	
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37
Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3842	0.0000	0.3842	0.0582	0.0000	0.0582			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.3842	0.9975	1.3817	0.0582	0.9280	0.9862		3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.5700e-003	0.1876	0.0497	9.8000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0500e-003	0.0106		104.1856	104.1856	1.4600e-003	0.0164	109.1143
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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0549	0.2227	0.4966	2.3200e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7700e-003	0.0557		240.9421	240.9421	4.8900e-003	0.0200	247.0300

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1498	0.0000	0.1498	0.0227	0.0000	0.0227			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	0.9246	18.3130	24.6739	0.0388	0.1498	0.8627	1.0126	0.0227	0.8627	0.8854	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.5700e-003	0.1876	0.0497	9.8000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0500e-003	0.0106		104.1856	104.1856	1.4600e-003	0.0164	109.1143
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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0549	0.2227	0.4966	2.3200e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7700e-003	0.0557		240.9421	240.9421	4.8900e-003	0.0200	247.0300

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3657	3.5890	2.0411	8.4600e-003		0.1202	0.1202		0.1106	0.1106		818.6842	818.6842	0.2648		825.3037
Total	0.3657	3.5890	2.0411	8.4600e-003	0.0000	0.1202	0.1202	0.0000	0.1106	0.1106		818.6842	818.6842	0.2648		825.3037

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	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831
Total	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.3 Clear Site - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2091	4.0427	4.5306	8.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037
Total	0.2091	4.0427	4.5306	8.4600e-003	0.0000	0.1533	0.1533	0.0000	0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037

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	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831
Total	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.9148	50.3941	26.6840	0.0707		2.2824	2.2824		2.0998	2.0998		6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	4.9148	50.3941	26.6840	0.0707	11.3246	2.2824	13.6070	3.8828	2.0998	5.9826		6,851.340 1	6,851.340 1	2.2159		6,906.736 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426
Total	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.4 Recompect - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.2089	19.9004	39.0759	0.0707		0.2268	0.2268		0.2268	0.2268	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	1.2089	19.9004	39.0759	0.0707	4.4166	0.2268	4.6434	1.5143	0.2268	1.7411	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 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	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426
Total	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					17.7335	0.0000	17.7335	7.2516	0.0000	7.2516			0.0000			0.0000
Off-Road	9.4190	98.7942	69.5014	0.1715		3.9985	3.9985		3.6787	3.6787		16,601.46 58	16,601.46 58	5.3693		16,735.69 71
Total	9.4190	98.7942	69.5014	0.1715	17.7335	3.9985	21.7320	7.2516	3.6787	10.9302		16,601.46 58	16,601.46 58	5.3693		16,735.69 71

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	0.7680	40.4007	10.7057	0.2101	6.6823	0.4608	7.1432	1.8320	0.4409	2.2729		22,439.30 91	22,439.30 91	0.3145	3.5359	23,500.86 32
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	0.1130	0.0773	0.9831	2.9400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		300.8644	300.8644	7.5600e-003	7.9200e-003	303.4145
Total	0.8810	40.4780	11.6887	0.2131	7.0512	0.4626	7.5137	1.9298	0.4425	2.3723		22,740.17 35	22,740.17 35	0.3221	3.5438	23,804.27 77

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.5 Recompact and Import - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9161	0.0000	6.9161	2.8281	0.0000	2.8281			0.0000			0.0000
Off-Road	2.9661	49.5875	91.7625	0.1715		0.6549	0.6549		0.6549	0.6549	0.0000	16,601.4658	16,601.4658	5.3693		16,735.6970
Total	2.9661	49.5875	91.7625	0.1715	6.9161	0.6549	7.5710	2.8281	0.6549	3.4830	0.0000	16,601.4658	16,601.4658	5.3693		16,735.6970

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	0.7680	40.4007	10.7057	0.2101	6.6823	0.4608	7.1432	1.8320	0.4409	2.2729		22,439.3091	22,439.3091	0.3145	3.5359	23,500.8632
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	0.1130	0.0773	0.9831	2.9400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		300.8644	300.8644	7.5600e-003	7.9200e-003	303.4145
Total	0.8810	40.4780	11.6887	0.2131	7.0512	0.4626	7.5137	1.9298	0.4425	2.3723		22,740.1735	22,740.1735	0.3221	3.5438	23,804.2777

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.2152	44.9138	29.3470	0.0759		1.7708	1.7708		1.6292	1.6292		7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	4.2152	44.9138	29.3470	0.0759	11.3246	1.7708	13.0954	3.8828	1.6292	5.5119		7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.6 Fine Grade - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.3656	23.2116	40.3585	0.0759		0.3718	0.3718		0.3718	0.3718	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	1.3656	23.2116	40.3585	0.0759	4.4166	0.3718	4.7884	1.5143	0.3718	1.8860	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	3.4666	33.4389	19.1668	0.0380		1.9067	1.9067		1.7542	1.7542		3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	3.4666	33.4389	19.1668	0.0380	23.3688	1.9067	25.2755	10.5032	1.7542	12.2574		3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.7 Offsite Site Prep - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	0.9312	19.0656	22.9600	0.0380	9.1138	0.9462	10.0600	4.0963	0.9462	5.0424	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.8 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5376	17.8437	7.1611	0.0902	3.2986	0.1471	3.4456	0.9498	0.1407	1.0904		9,565.1362	9,565.1362	0.0954	1.4146	9,989.0823
Worker	4.5168	3.0897	39.2924	0.1175	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		12,025.4592	12,025.4592	0.3020	0.3167	12,127.3840
Total	5.0543	20.9333	46.4535	0.2077	18.0419	0.2162	18.2581	4.8598	0.2044	5.0641		21,590.5954	21,590.5954	0.3974	1.7313	22,116.4664

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.8 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	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5376	17.8437	7.1611	0.0902	3.2986	0.1471	3.4456	0.9498	0.1407	1.0904		9,565.1362	9,565.1362	0.0954	1.4146	9,989.0823
Worker	4.5168	3.0897	39.2924	0.1175	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		12,025.4592	12,025.4592	0.3020	0.3167	12,127.3840
Total	5.0543	20.9333	46.4535	0.2077	18.0419	0.2162	18.2581	4.8598	0.2044	5.0641		21,590.5954	21,590.5954	0.3974	1.7313	22,116.4664

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5286	17.8462	7.0811	0.0888	3.2985	0.1461	3.4446	0.9497	0.1397	1.0895		9,417.8800	9,417.8800	0.0988	1.3907	9,834.7804
Worker	4.2239	2.7523	36.8092	0.1138	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		11,737.4979	11,737.4979	0.2740	0.2942	11,832.0053
Total	4.7524	20.5984	43.8903	0.2026	18.0418	0.2122	18.2540	4.8597	0.2006	5.0603		21,155.3779	21,155.3779	0.3728	1.6849	21,666.7857

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.8 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5286	17.8462	7.0811	0.0888	3.2985	0.1461	3.4446	0.9497	0.1397	1.0895		9,417.8800	9,417.8800	0.0988	1.3907	9,834.7804
Worker	4.2239	2.7523	36.8092	0.1138	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		11,737.4979	11,737.4979	0.2740	0.2942	11,832.0053
Total	4.7524	20.5984	43.8903	0.2026	18.0418	0.2122	18.2540	4.8597	0.2006	5.0603		21,155.3779	21,155.3779	0.3728	1.6849	21,666.7857

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.7112	18.2458	10.8492	0.0343		0.6533	0.6533		0.6011	0.6011		3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	1.7112	18.2458	10.8492	0.0343	5.3025	0.6533	5.9558	0.5726	0.6011	1.1736		3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438
Total	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.9 2nd Move In - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.7202	13.1257	18.2962	0.0343		0.3707	0.3707		0.3707	0.3707	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	0.7202	13.1257	18.2962	0.0343	2.0680	0.3707	2.4387	0.2233	0.3707	0.5940	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438
Total	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.9471	19.6697	13.5186	0.0413		0.7302	0.7302		0.6718	0.6718		4,000.9924	4,000.9924	1.2940		4,033.3425
Total	1.9471	19.6697	13.5186	0.0413	5.3025	0.7302	6.0327	0.5726	0.6718	1.2443		4,000.9924	4,000.9924	1.2940		4,033.3425

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	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157
Total	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.10 3rd Move In - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.8934	16.6996	22.6388	0.0413		0.5535	0.5535		0.5535	0.5535	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 4
Total	0.8934	16.6996	22.6388	0.0413	2.0680	0.5535	2.6215	0.2233	0.5535	0.7768	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 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	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157
Total	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6283	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

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

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.11 Offsite Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2011	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

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

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9763	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.0944	4,415.0944	1.4279		4,450.7927
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3641	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.0944	4,415.0944	1.4279		4,450.7927

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	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131
Total	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.12 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1219	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5097	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131
Total	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.8075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	30.2895	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952
Total	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

3.13 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.8075					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847
Total	29.9660	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847

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	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952
Total	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Unmitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Mitigated - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

14616 Menifee Commerce Construction Unmitigated

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction schedule based on Project-specific data.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment -

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

Off-road Equipment -

Off-road Equipment - In order to account for fugitive dust emissions, crawler tractors were used in lieu of tractors/loaders/backhoes.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Off-road Equipment - Equipment based on data provided by Project team.

Trips and VMT -

Demolition - Equipment based on data provided by Project team.

Grading - Assumes 5 acres will be graded per day.

Architectural Coating - Per Rule 1113

Vehicle Trips - Construction only

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Consumer Products - Construction only

Area Coating - Construction only

Energy Use - Construction only

Water And Wastewater - Construction only

Solid Waste - Construction only

Construction Off-road Equipment Mitigation - Project will utilize Tier 3 construction equipment

Mobile Commute Mitigation -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	1,110.00	260.00
tblConstructionPhase	NumDays	70.00	22.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	57.00
tblConstructionPhase	NumDays	110.00	15.00
tblConstructionPhase	NumDays	110.00	20.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	55.00
tblConstructionPhase	NumDays	75.00	65.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	40.00	30.00
tblConsumerProducts	ROG_EF	1.98E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.33	0.00
tblEnergyUse	T24NG	1.98	0.00
tblGrading	AcresOfGrading	157.50	75.00
tblGrading	AcresOfGrading	627.00	285.00
tblGrading	AcresOfGrading	30.00	100.00
tblGrading	AcresOfGrading	60.00	200.00
tblGrading	AcresOfGrading	105.00	150.00
tblGrading	MaterialImported	0.00	174,100.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

tblOffRoadEquipment	HorsePower	247.00	158.00
tblOffRoadEquipment	HorsePower	367.00	187.00
tblOffRoadEquipment	HorsePower	212.00	97.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	HorsePower	203.00	247.00
tblOffRoadEquipment	LoadFactor	0.40	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	LoadFactor	0.36	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	1,541.72	0.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

tblVehicleTrips	ST_TR	1.74	0.00
tblVehicleTrips	SU_TR	1.74	0.00
tblVehicleTrips	WD_TR	1.74	0.00
tblWater	IndoorWaterUseRate	379,280,062.50	0.00

2.0 Emissions Summary

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11.9295	139.2722	100.7766	0.3845	41.6119	4.4611	45.2319	15.4164	4.1211	18.7816	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47
2024	124.6980	69.1450	92.2257	0.3027	23.4896	2.2559	25.7455	5.4708	2.1061	7.5770	0.0000	30,749.47 92	30,749.47 92	2.9966	1.6878	31,327.34 55
Maximum	124.6980	139.2722	100.7766	0.3845	41.6119	4.4611	45.2319	15.4164	4.1211	18.7816	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	7.4873	90.0655	108.2218	0.3845	27.3569	3.0876	30.4445	9.0094	3.0756	12.0850	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47
2024	124.3745	67.7633	105.1639	0.3027	20.2551	2.6905	22.9456	5.1216	2.6789	7.8005	0.0000	30,749.47 92	30,749.47 92	2.9966	1.6878	31,327.34 55
Maximum	124.3745	90.0655	108.2218	0.3845	27.3569	3.0876	30.4445	9.0094	3.0756	12.0850	0.0000	39,341.63 93	39,341.63 93	5.6913	3.5438	40,539.97 47

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.49	24.27	-10.56	0.00	26.86	13.98	24.78	32.35	7.59	24.56	0.00	0.00	0.00	0.00	0.00	0.00

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

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	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0158	1.5500e-003	0.1707	1.0000e-005	0.0000	6.1000e-004	6.1000e-004	0.0000	6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004	0.0000	0.3904

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/31/2023	5	22	
2	Clear Site	Site Preparation	2/1/2023	2/9/2023	5	7	
3	Recompact	Grading	2/10/2023	3/2/2023	5	15	
4	Recompact and Import	Grading	3/3/2023	5/22/2023	5	57	
5	Fine Grade	Grading	5/23/2023	6/12/2023	5	15	
6	Offsite Site Prep	Site Preparation	6/13/2023	7/24/2023	5	30	
7	Building Construction	Building Construction	6/13/2023	6/10/2024	5	260	
8	2nd Move In	Grading	11/1/2023	11/28/2023	5	20	
9	3rd Move In	Grading	2/1/2024	3/27/2024	5	40	
10	Offsite Paving	Paving	6/11/2024	8/26/2024	5	55	
11	Paving	Paving	6/11/2024	9/9/2024	5	65	
12	Architectural Coating	Architectural Coating	9/10/2024	12/9/2024	5	65	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,460,195; Non-Residential Outdoor: 820,065; Striped Parking Area: 89,986 (Architectural Coating – sqft)

OffRoad Equipment

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Clear Site	Rubber Tired Loaders	1	8.00	247	0.40
Recompact and Import	Rubber Tired Dozers	2	8.00	247	0.40
Recompact and Import	Scrapers	10	8.00	367	0.48
Recompact and Import	Sweepers/Scrubbers	1	8.00	64	0.46
Fine Grade	Graders	1	8.00	187	0.41
Fine Grade	Rubber Tired Dozers	1	8.00	247	0.40
Fine Grade	Scrapers	4	8.00	367	0.48
Offsite Site Prep	Crawler Tractors	4	8.00	97	0.37
Offsite Site Prep	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
2nd Move In	Graders	1	8.00	187	0.41
2nd Move In	Rubber Tired Loaders	2	8.00	203	0.36
2nd Move In	Scrapers	1	8.00	367	0.48
3rd Move In	Graders	1	8.00	187	0.41
3rd Move In	Rollers	1	8.00	80	0.38
3rd Move In	Rubber Tired Loaders	2	8.00	247	0.40
3rd Move In	Scrapers	1	8.00	367	0.48
Offsite Paving	Pavers	2	8.00	130	0.42
Offsite Paving	Paving Equipment	2	8.00	132	0.36
Offsite Paving	Rollers	2	8.00	80	0.38
Paving	Pavers	4	8.00	130	0.42

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

Paving	Paving Equipment	4	8.00	132	0.36
Paving	Rollers	4	8.00	80	0.38
Architectural Coating	Air Compressors	2	8.00	78	0.48
Recompact	Rubber Tired Dozers	1	8.00	158	0.38
Recompact	Scrapers	10	8.00	187	0.41

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	39.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Clear Site	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact and Import	13	33.00	0.00	21,763.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grade	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Site Prep	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	1,319.00	515.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2nd Move In	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
3rd Move In	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Offsite Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	12	30.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	264.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Recompact	11	28.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3842	0.0000	0.3842	0.0582	0.0000	0.0582			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.3842	0.9975	1.3817	0.0582	0.9280	0.9862		3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.5700e-003	0.1876	0.0497	9.8000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0500e-003	0.0106		104.1856	104.1856	1.4600e-003	0.0164	109.1143
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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0549	0.2227	0.4966	2.3200e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7700e-003	0.0557		240.9421	240.9421	4.8900e-003	0.0200	247.0300

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1498	0.0000	0.1498	0.0227	0.0000	0.0227			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	0.9246	18.3130	24.6739	0.0388	0.1498	0.8627	1.0126	0.0227	0.8627	0.8854	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	3.5700e-003	0.1876	0.0497	9.8000e-004	0.0310	2.1400e-003	0.0332	8.5100e-003	2.0500e-003	0.0106		104.1856	104.1856	1.4600e-003	0.0164	109.1143
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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0549	0.2227	0.4966	2.3200e-003	0.1987	2.9300e-003	0.2016	0.0530	2.7700e-003	0.0557		240.9421	240.9421	4.8900e-003	0.0200	247.0300

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.3 Clear Site - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3657	3.5890	2.0411	8.4600e-003		0.1202	0.1202		0.1106	0.1106		818.6842	818.6842	0.2648		825.3037
Total	0.3657	3.5890	2.0411	8.4600e-003	0.0000	0.1202	0.1202	0.0000	0.1106	0.1106		818.6842	818.6842	0.2648		825.3037

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	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831
Total	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.3 Clear Site - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2091	4.0427	4.5306	8.4600e-003		0.1533	0.1533		0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037
Total	0.2091	4.0427	4.5306	8.4600e-003	0.0000	0.1533	0.1533	0.0000	0.1533	0.1533	0.0000	818.6842	818.6842	0.2648		825.3037

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	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831
Total	0.0103	7.0300e-003	0.0894	2.7000e-004	0.0335	1.6000e-004	0.0337	8.8900e-003	1.4000e-004	9.0400e-003		27.3513	27.3513	6.9000e-004	7.2000e-004	27.5831

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.4 Recompect - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.9148	50.3941	26.6840	0.0707		2.2824	2.2824		2.0998	2.0998		6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	4.9148	50.3941	26.6840	0.0707	11.3246	2.2824	13.6070	3.8828	2.0998	5.9826		6,851.340 1	6,851.340 1	2.2159		6,906.736 6

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	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	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426
Total	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.4 Recompect - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.2089	19.9004	39.0759	0.0707		0.2268	0.2268		0.2268	0.2268	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 6
Total	1.2089	19.9004	39.0759	0.0707	4.4166	0.2268	4.6434	1.5143	0.2268	1.7411	0.0000	6,851.340 1	6,851.340 1	2.2159		6,906.736 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	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426
Total	0.0959	0.0656	0.8341	2.4900e-003	0.3130	1.4700e-003	0.3144	0.0830	1.3500e-003	0.0844		255.2789	255.2789	6.4100e-003	6.7200e-003	257.4426

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.5 Recompact and Import - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					17.7335	0.0000	17.7335	7.2516	0.0000	7.2516			0.0000			0.0000
Off-Road	9.4190	98.7942	69.5014	0.1715		3.9985	3.9985		3.6787	3.6787		16,601.46 58	16,601.46 58	5.3693		16,735.69 71
Total	9.4190	98.7942	69.5014	0.1715	17.7335	3.9985	21.7320	7.2516	3.6787	10.9302		16,601.46 58	16,601.46 58	5.3693		16,735.69 71

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	0.7680	40.4007	10.7057	0.2101	6.6823	0.4608	7.1432	1.8320	0.4409	2.2729		22,439.30 91	22,439.30 91	0.3145	3.5359	23,500.86 32
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	0.1130	0.0773	0.9831	2.9400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		300.8644	300.8644	7.5600e-003	7.9200e-003	303.4145
Total	0.8810	40.4780	11.6887	0.2131	7.0512	0.4626	7.5137	1.9298	0.4425	2.3723		22,740.17 35	22,740.17 35	0.3221	3.5438	23,804.27 77

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.5 Recompact and Import - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9161	0.0000	6.9161	2.8281	0.0000	2.8281			0.0000			0.0000
Off-Road	2.9661	49.5875	91.7625	0.1715		0.6549	0.6549		0.6549	0.6549	0.0000	16,601.46 58	16,601.46 58	5.3693		16,735.69 70
Total	2.9661	49.5875	91.7625	0.1715	6.9161	0.6549	7.5710	2.8281	0.6549	3.4830	0.0000	16,601.46 58	16,601.46 58	5.3693		16,735.69 70

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	0.7680	40.4007	10.7057	0.2101	6.6823	0.4608	7.1432	1.8320	0.4409	2.2729		22,439.30 91	22,439.30 91	0.3145	3.5359	23,500.86 32
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	0.1130	0.0773	0.9831	2.9400e-003	0.3689	1.7300e-003	0.3706	0.0978	1.5900e-003	0.0994		300.8644	300.8644	7.5600e-003	7.9200e-003	303.4145
Total	0.8810	40.4780	11.6887	0.2131	7.0512	0.4626	7.5137	1.9298	0.4425	2.3723		22,740.17 35	22,740.17 35	0.3221	3.5438	23,804.27 77

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.6 Fine Grade - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.3246	0.0000	11.3246	3.8828	0.0000	3.8828			0.0000			0.0000
Off-Road	4.2152	44.9138	29.3470	0.0759		1.7708	1.7708		1.6292	1.6292		7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	4.2152	44.9138	29.3470	0.0759	11.3246	1.7708	13.0954	3.8828	1.6292	5.5119		7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.6 Fine Grade - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.4166	0.0000	4.4166	1.5143	0.0000	1.5143			0.0000			0.0000
Off-Road	1.3656	23.2116	40.3585	0.0759		0.3718	0.3718		0.3718	0.3718	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 4
Total	1.3656	23.2116	40.3585	0.0759	4.4166	0.3718	4.7884	1.5143	0.3718	1.8860	0.0000	7,348.371 1	7,348.371 1	2.3766		7,407.786 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	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157
Total	0.0514	0.0351	0.4468	1.3400e-003	0.1677	7.9000e-004	0.1685	0.0445	7.2000e-004	0.0452		136.7566	136.7566	3.4300e-003	3.6000e-003	137.9157

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.7 Offsite Site Prep - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.3688	0.0000	23.3688	10.5032	0.0000	10.5032			0.0000			0.0000
Off-Road	3.4666	33.4389	19.1668	0.0380		1.9067	1.9067		1.7542	1.7542		3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	3.4666	33.4389	19.1668	0.0380	23.3688	1.9067	25.2755	10.5032	1.7542	12.2574		3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.7 Offsite Site Prep - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.1138	0.0000	9.1138	4.0963	0.0000	4.0963			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 4
Total	0.9312	19.0656	22.9600	0.0380	9.1138	0.9462	10.0600	4.0963	0.9462	5.0424	0.0000	3,686.616 2	3,686.616 2	1.1923		3,716.424 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	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988
Total	0.0616	0.0422	0.5362	1.6000e-003	0.2012	9.4000e-004	0.2021	0.0534	8.7000e-004	0.0542		164.1079	164.1079	4.1200e-003	4.3200e-003	165.4988

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.8 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	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5376	17.8437	7.1611	0.0902	3.2986	0.1471	3.4456	0.9498	0.1407	1.0904		9,565.1362	9,565.1362	0.0954	1.4146	9,989.0823
Worker	4.5168	3.0897	39.2924	0.1175	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		12,025.4592	12,025.4592	0.3020	0.3167	12,127.3840
Total	5.0543	20.9333	46.4535	0.2077	18.0419	0.2162	18.2581	4.8598	0.2044	5.0641		21,590.5954	21,590.5954	0.3974	1.7313	22,116.4664

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.8 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	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

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	0.5376	17.8437	7.1611	0.0902	3.2986	0.1471	3.4456	0.9498	0.1407	1.0904		9,565.1362	9,565.1362	0.0954	1.4146	9,989.0823
Worker	4.5168	3.0897	39.2924	0.1175	14.7433	0.0692	14.8125	3.9100	0.0637	3.9737		12,025.4592	12,025.4592	0.3020	0.3167	12,127.3840
Total	5.0543	20.9333	46.4535	0.2077	18.0419	0.2162	18.2581	4.8598	0.2044	5.0641		21,590.5954	21,590.5954	0.3974	1.7313	22,116.4664

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.8 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332		5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5286	17.8462	7.0811	0.0888	3.2985	0.1461	3.4446	0.9497	0.1397	1.0895		9,417.8800	9,417.8800	0.0988	1.3907	9,834.7804
Worker	4.2239	2.7523	36.8092	0.1138	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		11,737.4979	11,737.4979	0.2740	0.2942	11,832.0053
Total	4.7524	20.5984	43.8903	0.2026	18.0418	0.2122	18.2540	4.8597	0.2006	5.0603		21,155.3779	21,155.3779	0.3728	1.6849	21,666.7857

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.8 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	1.4402	30.4382	38.2721	0.0577		1.9242	1.9242		1.9242	1.9242	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

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	0.5286	17.8462	7.0811	0.0888	3.2985	0.1461	3.4446	0.9497	0.1397	1.0895		9,417.8800	9,417.8800	0.0988	1.3907	9,834.7804
Worker	4.2239	2.7523	36.8092	0.1138	14.7433	0.0661	14.8094	3.9100	0.0608	3.9708		11,737.4979	11,737.4979	0.2740	0.2942	11,832.0053
Total	4.7524	20.5984	43.8903	0.2026	18.0418	0.2122	18.2540	4.8597	0.2006	5.0603		21,155.3779	21,155.3779	0.3728	1.6849	21,666.7857

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.9 2nd Move In - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.7112	18.2458	10.8492	0.0343		0.6533	0.6533		0.6011	0.6011		3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	1.7112	18.2458	10.8492	0.0343	5.3025	0.6533	5.9558	0.5726	0.6011	1.1736		3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438
Total	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.9 2nd Move In - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.7202	13.1257	18.2962	0.0343		0.3707	0.3707		0.3707	0.3707	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1
Total	0.7202	13.1257	18.2962	0.0343	2.0680	0.3707	2.4387	0.2233	0.3707	0.5940	0.0000	3,322.106 2	3,322.106 2	1.0744		3,348.967 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438
Total	0.0342	0.0234	0.2979	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		91.1710	91.1710	2.2900e-003	2.4000e-003	91.9438

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.10 3rd Move In - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	1.9471	19.6697	13.5186	0.0413		0.7302	0.7302		0.6718	0.6718		4,000.9924	4,000.9924	1.2940		4,033.3425
Total	1.9471	19.6697	13.5186	0.0413	5.3025	0.7302	6.0327	0.5726	0.6718	1.2443		4,000.9924	4,000.9924	1.2940		4,033.3425

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	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157
Total	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.10 3rd Move In - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	0.8934	16.6996	22.6388	0.0413		0.5535	0.5535		0.5535	0.5535	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 4
Total	0.8934	16.6996	22.6388	0.0413	2.0680	0.5535	2.6215	0.2233	0.5535	0.7768	0.0000	4,000.992 4	4,000.992 4	1.2940		4,033.342 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	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157
Total	0.0416	0.0271	0.3628	1.1200e-003	0.1453	6.5000e-004	0.1460	0.0385	6.0000e-004	0.0391		115.6842	115.6842	2.7000e-003	2.9000e-003	116.6157

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.11 Offsite Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.6283	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

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

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.11 Offsite Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.6401					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2011	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

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

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.12 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9763	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	3.3641	19.0492	29.2515	0.0456		0.9370	0.9370		0.8621	0.8621		4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131
Total	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.12 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1219	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7
Paving	1.3878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.5097	22.5905	34.5913	0.0456		1.2187	1.2187		1.2187	1.2187	0.0000	4,415.094 4	4,415.094 4	1.4279		4,450.792 7

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	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131
Total	0.0961	0.0626	0.8372	2.5900e-003	0.3353	1.5000e-003	0.3368	0.0889	1.3800e-003	0.0903		266.9636	266.9636	6.2300e-003	6.6900e-003	269.1131

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.13 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.3706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	123.8526	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

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	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952
Total	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

3.13 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	123.3706					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1585	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847
Total	123.5291	3.6186	4.8864	7.9200e-003		0.2536	0.2536		0.2536	0.2536	0.0000	750.5281	750.5281	0.0423		751.5847

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	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952
Total	0.8454	0.5509	7.3674	0.0228	2.9509	0.0132	2.9641	0.7826	0.0122	0.7948		2,349.2793	2,349.2793	0.0549	0.0589	2,368.1952

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Unmitigated	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904
Total	0.0158	1.5500e-003	0.1707	1.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004		0.3665	0.3665	9.6000e-004		0.3904

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Construction Unmitigated - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

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APPENDIX 4.2:

CALEEMOD PROJECT OPERATIONAL MODEL OUTPUTS

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

14616 Menifee Commerce Ctr Ops Scenario 1

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	5.05
tblVehicleTrips	ST_TR	0.00	0.29
tblVehicleTrips	SU_TR	1.74	5.05
tblVehicleTrips	SU_TR	0.00	0.29
tblVehicleTrips	WD_TR	1.74	5.05
tblVehicleTrips	WD_TR	0.00	0.29
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

		Highest	
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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	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Energy	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	850.7402	850.7402	0.0603	0.0101	855.2669
Mobile	4.9247	16.8333	55.4262	0.1870	16.2713	0.2135	16.4847	4.3638	0.2022	4.5660	0.0000	17,708.7725	17,708.7725	0.6305	1.4022	18,142.3801
Waste						0.0000	0.0000		0.0000	0.0000	312.9552	0.0000	312.9552	18.4951	0.0000	775.3333
Water						0.0000	0.0000		0.0000	0.0000	3.5586	32.3120	35.8705	0.3682	8.9600e-003	47.7465
Total	11.7510	16.9952	55.6042	0.1880	16.2713	0.2259	16.4972	4.3638	0.2146	4.5784	316.5138	18,591.9069	18,908.4207	19.5544	1.4213	19,820.8145

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Energy	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	850.7402	850.7402	0.0603	0.0101	855.2669
Mobile	4.9247	16.8333	55.4262	0.1870	16.2713	0.2135	16.4847	4.3638	0.2022	4.5660	0.0000	17,708.7725	17,708.7725	0.6305	1.4022	18,142.3801
Waste						0.0000	0.0000		0.0000	0.0000	312.9552	0.0000	312.9552	18.4951	0.0000	775.3333
Water						0.0000	0.0000		0.0000	0.0000	3.5586	32.3120	35.8705	0.3682	8.9600e-003	47.7465
Total	11.7510	16.9952	55.6042	0.1880	16.2713	0.2259	16.4972	4.3638	0.2146	4.5784	316.5138	18,591.9069	18,908.4207	19.5544	1.4213	19,820.8145

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

3.2 Building Construction - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.9247	16.8333	55.4262	0.1870	16.2713	0.2135	16.4847	4.3638	0.2022	4.5660	0.0000	17,708.77 25	17,708.77 25	0.6305	1.4022	18,142.38 01
Unmitigated	4.9247	16.8333	55.4262	0.1870	16.2713	0.2135	16.4847	4.3638	0.2022	4.5660	0.0000	17,708.77 25	17,708.77 25	0.6305	1.4022	18,142.38 01

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8,282.66	8,282.66	8,282.66	35,497,121	35,497,121
User Defined Industrial	475.64	475.64	475.64	6,925,285	6,925,285
Total	8,758.29	8,758.29	8,758.29	42,422,406	42,422,406

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.168085	0.000000	0.206383	0.625532	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	674.8178	674.8178	0.0570	6.9000e-003	678.2991
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	674.8178	674.8178	0.0570	6.9000e-003	678.2991
NaturalGas Mitigated	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
NaturalGas Unmitigated	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	3.29666e+006	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	3.29666e+006	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.8051e+006	674.8178	0.0570	6.9000e-003	678.2991
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		674.8178	0.0570	6.9000e-003	678.2991

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.8051e+006	674.8178	0.0570	6.9000e-003	678.2991
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		674.8178	0.0570	6.9000e-003	678.2991

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Unmitigated	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

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	0.7811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Total	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.7811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Total	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.8705	0.3682	8.9600e-003	47.7465
Unmitigated	35.8705	0.3682	8.9600e-003	47.7465

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.2168 / 3.25325	35.8705	0.3682	8.9600e-003	47.7465
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.8705	0.3682	8.9600e-003	47.7465

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.2168 / 3.25325	35.8705	0.3682	8.9600e-003	47.7465
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.8705	0.3682	8.9600e-003	47.7465

8.0 Waste Detail

8.1 Mitigation Measures Waste

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	312.9552	18.4951	0.0000	775.3333
Unmitigated	312.9552	18.4951	0.0000	775.3333

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1541.72	312.9552	18.4951	0.0000	775.3333
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		312.9552	18.4951	0.0000	775.3333

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1541.72	312.9552	18.4951	0.0000	775.3333
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		312.9552	18.4951	0.0000	775.3333

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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14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Annual

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

11.0 Vegetation

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

14616 Menifee Commerce Ctr Ops Scenario 1

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	5.05
tblVehicleTrips	ST_TR	0.00	0.29
tblVehicleTrips	SU_TR	1.74	5.05
tblVehicleTrips	SU_TR	0.00	0.29
tblVehicleTrips	WD_TR	1.74	5.05
tblVehicleTrips	WD_TR	0.00	0.29
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	30.7908	87.0397	335.6186	1.0728	90.8800	1.1742	92.0542	24.3397	1.1120	25.4516		111,944.1825	111,944.1825	3.7725	8.4041	114,542.9068
Total	68.2049	87.9282	336.7003	1.0782	90.8800	1.2427	92.1227	24.3397	1.1805	25.5201		113,007.4902	113,007.4902	3.7948	8.4235	115,612.5762

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	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	30.7908	87.0397	335.6186	1.0728	90.8800	1.1742	92.0542	24.3397	1.1120	25.4516		111,944.1825	111,944.1825	3.7725	8.4041	114,542.9068
Total	68.2049	87.9282	336.7003	1.0782	90.8800	1.2427	92.1227	24.3397	1.1805	25.5201		113,007.4902	113,007.4902	3.7948	8.4235	115,612.5762

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
Building Construction			515.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

3.2 Building Construction - 2021

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.7908	87.0397	335.6186	1.0728	90.8800	1.1742	92.0542	24.3397	1.1120	25.4516		111,944.1825	111,944.1825	3.7725	8.4041	114,542.9068
Unmitigated	30.7908	87.0397	335.6186	1.0728	90.8800	1.1742	92.0542	24.3397	1.1120	25.4516		111,944.1825	111,944.1825	3.7725	8.4041	114,542.9068

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8,282.66	8,282.66	8,282.66	35,497,121	35,497,121
User Defined Industrial	475.64	475.64	475.64	6,925,285	6,925,285
Total	8,758.29	8,758.29	8,758.29	42,422,406	42,422,406

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.168085	0.000000	0.206383	0.625532	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
NaturalGas Unmitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9031.95	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9.03195	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Unmitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

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	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

14616 Menifee Commerce Ctr Ops Scenario 1

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.63
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	5.05
tblVehicleTrips	ST_TR	0.00	0.29
tblVehicleTrips	SU_TR	1.74	5.05
tblVehicleTrips	SU_TR	0.00	0.29
tblVehicleTrips	WD_TR	1.74	5.05
tblVehicleTrips	WD_TR	0.00	0.29
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.582 2	1,062.582 2	0.0204	0.0195	1,068.896 6
Mobile	26.7465	92.0735	294.2090	1.0161	90.8800	1.1747	92.0547	24.3397	1.1125	25.4521		106,085.9 213	106,085.9 213	3.8206	8.4783	108,707.9 663
Total	64.1607	92.9620	295.2907	1.0215	90.8800	1.2432	92.1232	24.3397	1.1810	25.5206		107,149.2 290	107,149.2 290	3.8428	8.4978	109,777.6 356

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	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.582 2	1,062.582 2	0.0204	0.0195	1,068.896 6
Mobile	26.7465	92.0735	294.2090	1.0161	90.8800	1.1747	92.0547	24.3397	1.1125	25.4521		106,085.9 213	106,085.9 213	3.8206	8.4783	108,707.9 663
Total	64.1607	92.9620	295.2907	1.0215	90.8800	1.2432	92.1232	24.3397	1.1810	25.5206		107,149.2 290	107,149.2 290	3.8428	8.4978	109,777.6 356

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
Building Construction			515.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

3.2 Building Construction - 2021

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	26.7465	92.0735	294.2090	1.0161	90.8800	1.1747	92.0547	24.3397	1.1125	25.4521		106,085.9213	106,085.9213	3.8206	8.4783	108,707.9663
Unmitigated	26.7465	92.0735	294.2090	1.0161	90.8800	1.1747	92.0547	24.3397	1.1125	25.4521		106,085.9213	106,085.9213	3.8206	8.4783	108,707.9663

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8,282.66	8,282.66	8,282.66	35,497,121	35,497,121
User Defined Industrial	475.64	475.64	475.64	6,925,285	6,925,285
Total	8,758.29	8,758.29	8,758.29	42,422,406	42,422,406

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.168085	0.000000	0.206383	0.625532	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
NaturalGas Unmitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9031.95	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9.03195	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Unmitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

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	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003			0.7254	0.7254	1.8900e-003	0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003			0.7254	0.7254	1.8900e-003	0.7728

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 1 - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

14616 Menifee Commerce Ctr Ops Scenario 2

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	1.17
tblVehicleTrips	ST_TR	0.00	0.31
tblVehicleTrips	SU_TR	1.74	1.17
tblVehicleTrips	SU_TR	0.00	0.31
tblVehicleTrips	WD_TR	1.74	1.17
tblVehicleTrips	WD_TR	0.00	0.31
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
2021					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

		Highest		
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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	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Energy	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	850.7402	850.7402	0.0603	0.0101	855.2669
Mobile	1.3528	15.0310	15.3787	0.1088	6.3172	0.1794	6.4966	1.7284	0.1711	1.8996	0.0000	10,411.7111	10,411.7111	0.2210	1.2381	10,786.1962
Waste						0.0000	0.0000		0.0000	0.0000	312.9552	0.0000	312.9552	18.4951	0.0000	775.3333
Water						0.0000	0.0000		0.0000	0.0000	3.5586	32.3120	35.8705	0.3682	8.9600e-003	47.7465
Total	8.1791	15.1929	15.5566	0.1098	6.3172	0.1918	6.5090	1.7284	0.1836	1.9120	316.5138	11,294.8455	11,611.3593	19.1449	1.2572	12,464.6306

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Energy	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	850.7402	850.7402	0.0603	0.0101	855.2669
Mobile	1.3528	15.0310	15.3787	0.1088	6.3172	0.1794	6.4966	1.7284	0.1711	1.8996	0.0000	10,411.7111	10,411.7111	0.2210	1.2381	10,786.1962
Waste						0.0000	0.0000		0.0000	0.0000	312.9552	0.0000	312.9552	18.4951	0.0000	775.3333
Water						0.0000	0.0000		0.0000	0.0000	3.5586	32.3120	35.8705	0.3682	8.9600e-003	47.7465
Total	8.1791	15.1929	15.5566	0.1098	6.3172	0.1918	6.5090	1.7284	0.1836	1.9120	316.5138	11,294.8455	11,611.3593	19.1449	1.2572	12,464.6306

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

3.2 Building Construction - 2021

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3528	15.0310	15.3787	0.1088	6.3172	0.1794	6.4966	1.7284	0.1711	1.8996	0.0000	10,411.7111	10,411.7111	0.2210	1.2381	10,786.1962
Unmitigated	1.3528	15.0310	15.3787	0.1088	6.3172	0.1794	6.4966	1.7284	0.1711	1.8996	0.0000	10,411.7111	10,411.7111	0.2210	1.2381	10,786.1962

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,918.95	1,918.95	1918.95	8,224,085	8,224,085
User Defined Industrial	508.44	508.44	508.44	7,402,891	7,402,891
Total	2,427.39	2,427.39	2,427.39	15,626,976	15,626,976

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.166994	0.000000	0.208251	0.624754	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	674.8178	674.8178	0.0570	6.9000e-003	678.2991
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	674.8178	674.8178	0.0570	6.9000e-003	678.2991
NaturalGas Mitigated	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
NaturalGas Unmitigated	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	3.29666e+006	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	3.29666e+006	0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0178	0.1616	0.1357	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	175.9224	175.9224	3.3700e-003	3.2300e-003	176.9678

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.8051e+006	674.8178	0.0570	6.9000e-003	678.2991
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		674.8178	0.0570	6.9000e-003	678.2991

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	3.8051e+006	674.8178	0.0570	6.9000e-003	678.2991
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		674.8178	0.0570	6.9000e-003	678.2991

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Unmitigated	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

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	0.7811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Total	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.7811					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.0236					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-003	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876
Total	6.8085	3.8000e-004	0.0422	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0823	0.0823	2.1000e-004	0.0000	0.0876

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	35.8705	0.3682	8.9600e-003	47.7465
Unmitigated	35.8705	0.3682	8.9600e-003	47.7465

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.2168 / 3.25325	35.8705	0.3682	8.9600e-003	47.7465
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.8705	0.3682	8.9600e-003	47.7465

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	11.2168 / 3.25325	35.8705	0.3682	8.9600e-003	47.7465
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		35.8705	0.3682	8.9600e-003	47.7465

8.0 Waste Detail

8.1 Mitigation Measures Waste

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	312.9552	18.4951	0.0000	775.3333
Unmitigated	312.9552	18.4951	0.0000	775.3333

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1541.72	312.9552	18.4951	0.0000	775.3333
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		312.9552	18.4951	0.0000	775.3333

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1541.72	312.9552	18.4951	0.0000	775.3333
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		312.9552	18.4951	0.0000	775.3333

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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14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Annual

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

11.0 Vegetation

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

14616 Menifee Commerce Ctr Ops Scenario 2

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	1.17
tblVehicleTrips	ST_TR	0.00	0.31
tblVehicleTrips	SU_TR	1.74	1.17
tblVehicleTrips	SU_TR	0.00	0.31
tblVehicleTrips	WD_TR	1.74	1.17
tblVehicleTrips	WD_TR	0.00	0.31
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	8.3197	78.0585	91.6875	0.6089	35.2540	0.9867	36.2407	9.6304	0.9412	10.5716		64,182.4379	64,182.4379	1.3298	7.4794	66,444.5526
Total	45.7338	78.9470	92.7692	0.6142	35.2540	1.0552	36.3092	9.6304	1.0097	10.6401		65,245.7455	65,245.7455	1.3520	7.4989	67,514.2220

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	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	8.3197	78.0585	91.6875	0.6089	35.2540	0.9867	36.2407	9.6304	0.9412	10.5716		64,182.4379	64,182.4379	1.3298	7.4794	66,444.5526
Total	45.7338	78.9470	92.7692	0.6142	35.2540	1.0552	36.3092	9.6304	1.0097	10.6401		65,245.7455	65,245.7455	1.3520	7.4989	67,514.2220

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
Building Construction			515.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

3.2 Building Construction - 2021

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3197	78.0585	91.6875	0.6089	35.2540	0.9867	36.2407	9.6304	0.9412	10.5716		64,182.4379	64,182.4379	1.3298	7.4794	66,444.5526
Unmitigated	8.3197	78.0585	91.6875	0.6089	35.2540	0.9867	36.2407	9.6304	0.9412	10.5716		64,182.4379	64,182.4379	1.3298	7.4794	66,444.5526

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,918.95	1,918.95	1918.95	8,224,085	8,224,085
User Defined Industrial	508.44	508.44	508.44	7,402,891	7,402,891
Total	2,427.39	2,427.39	2,427.39	15,626,976	15,626,976

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.166994	0.000000	0.208251	0.624754	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
NaturalGas Unmitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9031.95	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9.03195	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Unmitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

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	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003			0.7254	0.7254	1.8900e-003	0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003			0.7254	0.7254	1.8900e-003	0.7728

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

14616 Menifee Commerce Ctr Ops Scenario 2

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	1,640.13	1000sqft	37.65	1,640,130.00	0
User Defined Industrial	1,640.13	User Defined Unit	0.00	0.00	0
Other Asphalt Surfaces	34.43	Acre	34.43	1,499,770.80	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operation only

Off-road Equipment -

Off-road Equipment - Operation only

Vehicle Trips - Trip rates based on Project traffic study.

Area Coating -

Water And Wastewater - Water consumption based on EMWD Water Facilities Master Plan and ETWU

Mobile Commute Mitigation -

Area Mitigation - Based on SCAQMD Rule 1113

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

Fleet Mix - Fleet mix based on Project traffic study.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1,110.00	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.62
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.19
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.00
tblFleetMix	LHD1	0.03	0.17
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	LHD2	7.1910e-003	0.00
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.14	0.15
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MH	5.1890e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.21
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	OBUS	6.1100e-004	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	SBUS	1.0970e-003	0.00
tblFleetMix	UBUS	3.0900e-004	0.00

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

tblFleetMix	UBUS	3.0900e-004	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	1.74	1.17
tblVehicleTrips	ST_TR	0.00	0.31
tblVehicleTrips	SU_TR	1.74	1.17
tblVehicleTrips	SU_TR	0.00	0.31
tblVehicleTrips	WD_TR	1.74	1.17
tblVehicleTrips	WD_TR	0.00	0.31
tblWater	IndoorWaterUseRate	379,280,062.50	11,216,809.00
tblWater	OutdoorWaterUseRate	0.00	3,253,251.00

2.0 Emissions Summary

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	7.3369	82.4143	82.2044	0.5959	35.2540	0.9872	36.2413	9.6304	0.9417	10.5721		62,847.6543	62,847.6543	1.3384	7.5041	65,117.3237
Total	44.7511	83.3028	83.2861	0.6013	35.2540	1.0557	36.3098	9.6304	1.0102	10.6406		63,910.9619	63,910.9619	1.3606	7.5235	66,186.9931

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	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Energy	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
Mobile	7.3369	82.4143	82.2044	0.5959	35.2540	0.9872	36.2413	9.6304	0.9417	10.5721		62,847.6543	62,847.6543	1.3384	7.5041	65,117.3237
Total	44.7511	83.3028	83.2861	0.6013	35.2540	1.0557	36.3098	9.6304	1.0102	10.6406		63,910.9619	63,910.9619	1.3606	7.5235	66,186.9931

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	12/23/2021	12/22/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 34.43

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor

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
Building Construction			515.00	0.00	14.70	6.90				

3.1 Mitigation Measures Construction

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

3.2 Building Construction - 2021

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.3369	82.4143	82.2044	0.5959	35.2540	0.9872	36.2413	9.6304	0.9417	10.5721		62,847.65 43	62,847.65 43	1.3384	7.5041	65,117.32 37
Unmitigated	7.3369	82.4143	82.2044	0.5959	35.2540	0.9872	36.2413	9.6304	0.9417	10.5721		62,847.65 43	62,847.65 43	1.3384	7.5041	65,117.32 37

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	1,918.95	1,918.95	1918.95	8,224,085	8,224,085
User Defined Industrial	508.44	508.44	508.44	7,402,891	7,402,891
Total	2,427.39	2,427.39	2,427.39	15,626,976	15,626,976

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
User Defined Industrial	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Unrefrigerated Warehouse-No Rail	0.578650	0.060491	0.186325	0.148906	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025628	0.000000	0.000000

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.166994	0.000000	0.208251	0.624754	0.000000	0.000000	0.000000	0.000000	0.000000
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
NaturalGas Unmitigated	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9031.95	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s 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					
Other Asphalt Surfaces	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
Unrefrigerated Warehouse-No Rail	9.03195	0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0974	0.8855	0.7438	5.3100e-003		0.0673	0.0673		0.0673	0.0673		1,062.5822	1,062.5822	0.0204	0.0195	1,068.8966

6.0 Area Detail

6.1 Mitigation Measures Area

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Unmitigated	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

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	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	4.2798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.0058					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0312	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728
Total	37.3167	3.0700e-003	0.3379	3.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003		0.7254	0.7254	1.8900e-003		0.7728

7.0 Water Detail

7.1 Mitigation Measures Water

14616 Menifee Commerce Ctr Ops Scenario 2 - Riverside-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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APPENDIX 4.3:

EMFAC2017

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class	Mix
Riverside (SC)	2023	HHDT	Aggregate	Aggregate	Gasol	6.287048944	470.7572646	125.7913	108.7168293	269084.7531	470.7572646	2000831.243	7.44	HHDT	55.7%
Riverside (SC)	2023	HHDT	Aggregate	Aggregate	Diesel	15994.29576	1988254.022	167972.9	263953.2757		1988254.022				
Riverside (SC)	2023	HHDT	Aggregate	Aggregate	Natur	297.8339277	12106.46352	1161.552	5022.760484		12106.46352				
Riverside (SC)	2023	LDA	Aggregate	Aggregate	Gasol	600073.2625	24106871.96	2840578	730230.9972	734950.915	24106871.96	24831107.93	33.79	LDA	71.0%
Riverside (SC)	2023	LDA	Aggregate	Aggregate	Diesel	6022.455725	252078.6078	28799.31	4719.917791		252078.6078				
Riverside (SC)	2023	LDA	Aggregate	Aggregate	Electr	11812.58063	472157.3583	59231.08	0		472157.3583				
Riverside (SC)	2023	LDT1	Aggregate	Aggregate	Gasol	61620.9911	2305410.758	281506.9	81958.23074	81979.79872	2305410.758	2326765.882	28.38	LDT1	7.1%
Riverside (SC)	2023	LDT1	Aggregate	Aggregate	Diesel	25.82294405	564.5507588	85.51712	21.5679801		564.5507588				
Riverside (SC)	2023	LDT1	Aggregate	Aggregate	Electr	500.2265064	20790.57268	2538.375	0		20790.57268				
Riverside (SC)	2023	LDT2	Aggregate	Aggregate	Gasol	186844.1926	7271356.285	875598	272220.1339	273519.5233	7271356.285	7390732.737	27.02	LDT2	21.9%
Riverside (SC)	2023	LDT2	Aggregate	Aggregate	Diesel	1179.189513	52389.15473	5802.531	1299.389383		52389.15473				
Riverside (SC)	2023	LDT2	Aggregate	Aggregate	Electr	2202.047417	66987.29664	11134.27	0		66987.29664				
Riverside (SC)	2023	LHDT1	Aggregate	Aggregate	Gasol	15202.19219	489408.3926	226490	44787.94149	69458.64379	489408.3926	1012657.526	14.58	LHDT1	
Riverside (SC)	2023	LHDT1	Aggregate	Aggregate	Diesel	15878.17916	523249.1337	199727.5	24670.70229		523249.1337				
Riverside (SC)	2023	LHDT2	Aggregate	Aggregate	Gasol	2254.447347	72843.78455	33587.91	7620.327883	18120.43735	72843.78455	276453.3551	15.26	LHDT2	
Riverside (SC)	2023	LHDT2	Aggregate	Aggregate	Diesel	6182.746468	203609.5705	77771.17	10500.10946		203609.5705				
Riverside (SC)	2023	MCY	Aggregate	Aggregate	Gasol	28475.24545	179075.0601	56950.49	4725.448328	4725.448328	179075.0601	179075.0601	37.90	MCY	
Riverside (SC)	2023	MDV	Aggregate	Aggregate	Gasol	154204.1049	5532730.192	706420.9	261618.9822	266481.7348	5532730.192	5717270.278	21.45	MDV	
Riverside (SC)	2023	MDV	Aggregate	Aggregate	Diesel	3492.231312	143624.7637	16925.23	4862.752584		143624.7637				
Riverside (SC)	2023	MDV	Aggregate	Aggregate	Electr	1314.447545	40915.32239	6695.937	0		40915.32239				
Riverside (SC)	2023	MH	Aggregate	Aggregate	Gasol	4646.002839	36045.00319	464.7861	6920.030798	8307.842208	36045.00319	51245.8412	6.17	MH	
Riverside (SC)	2023	MH	Aggregate	Aggregate	Diesel	1979.944695	15200.83801	197.9945	1387.81141		15200.83801				
Riverside (SC)	2023	MHDT	Aggregate	Aggregate	Gasol	1361.919314	55522.81781	27249.28	10399.79838	74626.43474	55522.81781	804084.1257	10.77	MHDT	44.3%
Riverside (SC)	2023	MHDT	Aggregate	Aggregate	Diesel	11600.10675	748561.3079	115156.8	64226.63636		748561.3079				
Riverside (SC)	2023	OBUS	Aggregate	Aggregate	Gasol	437.8068702	14961.4141	8759.64	2859.206488	4613.197055	14961.4141	31071.97019	6.74	OBUS	
Riverside (SC)	2023	OBUS	Aggregate	Aggregate	Diesel	221.7033657	16110.5561	2113.001	1753.990567		16110.5561				
Riverside (SC)	2023	SBUS	Aggregate	Aggregate	Gasol	428.8888994	14909.41731	1715.556	1679.727113	5282.154427	14909.41731	42556.73324	8.06	SBUS	
Riverside (SC)	2023	SBUS	Aggregate	Aggregate	Diesel	872.8772386	27647.31593	10072.88	3602.427315		27647.31593				
Riverside (SC)	2023	UBUS	Aggregate	Aggregate	Gasol	165.4254964	23291.05069	661.702	3744.875418	3746.130052	23291.05069	23303.98009	6.22	UBUS	
Riverside (SC)	2023	UBUS	Aggregate	Aggregate	Diesel	0.141961099	11.67769301	0.567844	1.254634181		11.67769301				
Riverside (SC)	2023	UBUS	Aggregate	Aggregate	Electr	0.058469431	1.251702935	0.233878	0		1.251702935				
Riverside (SC)	2023	UBUS	Aggregate	Aggregate	Natur	206.2939379	27061.43488	825.1758							

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: Sub-Area

Region: Riverside (SC)

Calendar Year: 2024

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class	Mix
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Gasol	6.287048944	470.7572646	125.7913	108.7168293	269084.7531	470.7572646	2000831.243	7.44	HHDT	55.7%
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	15994.29576	1988254.022	167972.9	263953.2757		1988254.022				
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Natur	297.8339277	12106.46352	1161.552	5022.760484		12106.46352				
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Gasol	600073.2625	24106871.96	2840578	730230.9972	734950.915	24106871.96	24831107.93	33.79	LDA	71.0%
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Diesel	6022.455725	252078.6078	28799.31	4719.917791		252078.6078				
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Electr	11812.58063	472157.3583	59231.08	0		472157.3583				
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Gasol	61620.9911	2305410.758	281506.9	81958.23074	81979.79872	2305410.758	2326765.882	28.38	LDT1	7.1%
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Diesel	25.82294405	564.5507588	85.51712	21.5679801		564.5507588				
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Electr	500.2265064	20790.57268	2538.375	0		20790.57268				
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Gasol	186844.1926	7271356.285	875598	272220.1339	273519.5233	7271356.285	7390732.737	27.02	LDT2	21.9%
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Diesel	1179.189513	52389.15473	5802.531	1299.389383		52389.15473				
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Electr	2202.047417	66987.29664	11134.27	0		66987.29664				
Riverside (SC)	2024	LHDT1	Aggregate	Aggregate	Gasol	15202.19219	489408.3926	226490	44787.94149	69458.64379	489408.3926	1012657.526	14.58	LHDT1	
Riverside (SC)	2024	LHDT1	Aggregate	Aggregate	Diesel	15878.17916	523249.1337	199727.5	24670.70229		523249.1337				
Riverside (SC)	2024	LHDT2	Aggregate	Aggregate	Gasol	2254.447347	72843.78455	33587.91	7620.327883	18120.43735	72843.78455	276453.3551	15.26	LHDT2	
Riverside (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	6182.746468	203609.5705	77771.17	10500.10946		203609.5705				
Riverside (SC)	2024	MCY	Aggregate	Aggregate	Gasol	28475.24545	179075.0601	56950.49	4725.448328	4725.448328	179075.0601	179075.0601	37.90	MCY	
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Gasol	154204.1049	5532730.192	706420.9	261618.9822	266481.7348	5532730.192	5717270.278	21.45	MDV	
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Diesel	3492.231312	143624.7637	16925.23	4862.752584		143624.7637				
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Electr	1314.447545	40915.32239	6695.937	0		40915.32239				
Riverside (SC)	2024	MH	Aggregate	Aggregate	Gasol	4646.002839	36045.00319	464.7861	6920.030798	8307.842208	36045.00319	51245.8412	6.17	MH	
Riverside (SC)	2024	MH	Aggregate	Aggregate	Diesel	1979.944695	15200.83801	197.9945	1387.81141		15200.83801				
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Gasol	1361.919314	55522.81781	27249.28	10399.79838	74626.43474	55522.81781	804084.1257	10.77	MHDT	44.3%
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	11600.10675	748561.3079	115156.8	64226.63636		748561.3079				
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Gasol	437.8068702	14961.4141	8759.64	2859.206488	4613.197055	14961.4141	31071.97019	6.74	OBUS	
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Diesel	221.7033657	16110.5561	2113.001	1753.990567		16110.5561				
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Gasol	428.8888994	14909.41731	1715.556	1679.727113	5282.154427	14909.41731	42556.73324	8.06	SBUS	
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	872.8772386	27647.31593	10072.88	3602.427315		27647.31593				
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Gasol	165.4254964	23291.05069	661.702	3744.875418	3746.130052	23291.05069	23303.98009	6.22	UBUS	
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Diesel	0.141961099	11.67769301	0.567844	1.254634181		11.67769301				
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Electr	0.058469431	1.251702935	0.233878	0		1.251702935				
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Natur	206.2939379	27061.43488	825.1758							

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