



*Appendix 4.1-1:
Air Quality Technical Report*



TECHNICAL MEMORANDUM

To: Greg Tsujiuchi and Lisa Kranitz, City of Gardena
From: Olivia Chan and Rita Garcia, Kimley-Horn
Date: August 18, 2023
Subject: **Air Quality Technical Report Normandie Crossing Specific Plan Project, California Peer Review**

Kimley-Horn has conducted a follow-up third-party peer review of the Project's Air Quality Technical Report (Ramboll US Consulting, Inc., July 2023) on behalf of the City of Gardena to verify that Kimley-Horn's March 7, 2023 third-party peer review Technical Memo (TM) recommendations and Project updates have been incorporated. The revised July 2023 report does not incorporate the recommendations made in the peer review TM. However, the analysis, as revised, meets the applicable provisions of CEQA and the State CEQA Guidelines and is adequate for inclusion in the Project EIR.

Please do not hesitate to contact Olivia Chan at 714.939.1030 or olivia.chan@kimley-horn.com with any questions.

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Attorney Work Product

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Project Number
1690024301

Date
July 2023

AIR QUALITY TECHNICAL REPORT

NORMANDIE CROSSING SPECIFIC PLAN PROJECT

GARDENA, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

ARB:	California Air Resources Board
CalEEMod®:	California Emission Estimator Model
CAP:	Criteria Air Pollutant
CO:	carbon monoxide
EMFAC:	ARB's on-road mobile source emission factor model
EV:	Electric Vehicle
GHG:	greenhouse gas
LST:	Localized Significance Threshold
NO ₂ :	nitrogen dioxide
NO _x :	oxides of nitrogen
OFFROAD:	ARB's off-road mobile source emission factor model
PM:	particulate matter
PM ₁₀ :	particulate matter with an aerodynamic radius less than 10 micrometers
PM _{2.5} :	particulate matter with an aerodynamic radius less than 2.5 micrometers
ROG:	reactive organic gases
SCAQMD:	South Coast Air Quality Management District
SO _x :	oxides of sulfur
USEPA:	United States Environmental Protection Agency
VMT:	vehicle miles travelled
VOC:	volatile organic compounds

EXECUTIVE SUMMARY

The Normandie Crossing Specific Plan Project (the "Project") is a proposed residential development in the City of Gardena that involves the demolition of the existing industrial buildings, and construction of a new multi-family residential housing building with 403 dwelling units. The Project site is located on a 5.25-acre parcel at 16911 and 16831 S Normandie Avenue, Gardena, California. The proposed Project is expected to be built out by 2027, with construction beginning in 2024.

This report evaluates the air quality impacts associated with the construction and operation of the proposed Project. The proposed Project will result in emissions of criteria air pollutants (CAPs), such as nitrogen oxides (NO_x), carbon dioxide (CO), volatile organic compounds (VOC), sulfur oxides (SO_x), and particulate matter (PM) with an aerodynamic radius less than 10 micrometers (PM₁₀) or less than 2.5 micrometers (PM_{2.5}) during both construction and operation.

Ramboll US Consulting, Inc. (Ramboll) used the California Emission Estimator Model (CalEEMod®) version 2020.4.0 program to develop CAP emission inventories for the proposed Project and the South Coast Air Quality Management District's (SCAQMD's) mass-based Localized Significance Thresholds (LSTs) to evaluate ambient air impacts associated with construction of the proposed Project.

Table ES-1 presents the maximum daily CAP emissions associated with Project construction. As shown in **Table ES-1**, emissions of all CAPs are less than SCAQMD's mass daily significance thresholds. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant. The proposed Project will comply with SCAQMD Rule 403 to minimize fugitive dust, which will include fugitive dust control by watering active construction areas.

Table ES-2 presents the maximum daily criteria air pollutant emissions associated with Project operation. The primary source of the operational CAP emissions (except VOC) is traffic-related mobile sources. As shown in **Table ES-2**, emissions of all CAPs for the proposed Project (full buildout operations minus the existing conditions) are less than SCAQMD's mass daily significance thresholds. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

The localized air quality impacts of Project construction activities were evaluated using SCAQMD's LST methodology. **Table ES-3** presents a comparison of the Project-related emissions from on-site construction and operational activities to the applicable LSTs. Emissions from construction and operational activities were estimated based on conservative assumptions to represent the maximum level of activity that may occur on the Project Site. Furthermore, the LST analysis assumes that the maximum daily emissions would occur during the worst-case meteorological conditions, which is not likely. As shown in **Table ES-3**, Project-related on-site construction and operational emissions would not result in an exceedance of LSTs for nitrogen dioxide (NO₂), CO, PM₁₀, and PM_{2.5} standards. Therefore, the Project's contribution to the localized air concentrations of these pollutants would be less than significant.

1. INTRODUCTION

The purpose of this technical report is to present the quantitative analyses that were used to evaluate the Project's air quality emissions. Emissions during both construction and operations of the proposed Project were quantified. In addition, the localized criteria pollutant concentrations were evaluated using the mass-based Localized Significance Thresholds (LSTs) to evaluate ambient air impacts associated with construction of the proposed Project.

1.1 Project Description

The Normandie Crossing Specific Plan Project (the "Project") is a proposed residential development in the City of Gardena, California that involves the demolition of the existing industrial buildings, and construction of new multi-family residential housing with 403 dwelling units. The Project site is located on a 5.25-acre parcel at 16911 and 16831 S Normandie Avenue, Gardena, California. The proposed Project is expected to be built out by 2027, with construction beginning in 2024. **Table 1** summarizes the land uses for the proposed Project.

Analysis of the proposed Project's air quality emissions incorporates the following regulatory measures:

Regulatory Measures

Construction

- Compliance with SCAQMD Rule 403 regarding fugitive dust. The construction emission estimates include a fugitive dust control factor of 55% (equivalent to watering two times per day), which is a conservative representation of the level of fugitive dust control expected through compliance with South Coast Air Quality Management District (SCAQMD) Rule 403.
- Compliance with SCAQMD Rule 1113 regarding Architectural Coatings. This rule limits the volatile organic compound (VOC) content of architectural coatings used in the SCAQMD. The rule provides various standards for the coating category. California Emission Estimator Model (CalEEMod®) includes assumptions regarding the requirements of SCAQMD Rule 1113 (amended February 5, 2016).¹

Operational

- Compliance with SCAQMD Rule 445 regarding Wood-Burning Devices. This rule limits the installation of wood-burning devices into any new development. Therefore, all cooking stoves are assumed to be natural gas burning. The dwelling units will not have fireplaces.
- New residential buildings will meet the 2022 Title 24 Part 6 building code.

¹ Available at: <http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf>. Accessed: December 2022.

Project Design Features

The following project design features were qualitatively and quantitatively incorporated into the analysis:

Construction

- The Project will utilize off-road diesel-powered construction equipment which shall meet, at a minimum, the Tier 4 emission standards for nonroad diesel engines promulgated by the USEPA for equipment greater than 50 horsepower.²

Operational

- The proposed Project will comply with California Green Building Standards Code, Title 24, Part 11, of the California Code of Regulations for electric vehicle (EV) charging design. This is anticipated to provide 10% of parking stalls to be EV capable, 25% of parking stalls to be EV ready with Level 2 EV charging receptacles, and 5% of parking stalls to be equipped with Level 2 EV chargers. The exact design may vary from this in compliance with the California Green Building Standards Code.³
- There will be no natural gas use by any of the Project land uses.⁴

1.2 Existing Conditions

Existing land uses within the Project site include industrial buildings and surface parking lot. **Table 2** lists the existing land use and building square footages. The criteria pollutant emissions from the existing land use were estimated using CalEEMod[®] as described in Section 3 and are shown in **Table ES-2**.

² This measure was quantified within the Project construction emissions inventory.

³ This measure was not quantified but has been included here qualitatively.

⁴ This measure was quantified within the Project operational emissions inventory.

2. SIGNIFICANCE THRESHOLDS

The SCAQMD has established significance thresholds⁵ to assess the impacts of project-related construction and operational emissions on regional and local ambient air quality. **Table 3** shows the mass daily thresholds for construction and operations as adopted by the SCAQMD for criteria pollutant emissions evaluated in this analysis. The analysis summarized in this report estimates project-related construction and operational mass emissions and compares the emissions to these mass daily significance thresholds. This report also compares the ambient air quality impacts from on-site construction and operational activities to the state and local ambient air quality standards, for which the SCAQMD has established Localized Significance Thresholds (LSTs).⁶ LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard. The LST emission levels are presented in **Table 3**.

⁵ SCAQMD, 2019. Air Quality Significance Thresholds. April. Available at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>. Accessed: December 2022.

⁶ SCAQMD. Localized Significance Thresholds. Available at: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>. Accessed: December 2022.

3. CRITERIA POLLUTANT EMISSION INVENTORIES

This section describes the methodology that Ramboll US Consulting, Inc. (Ramboll) used to develop the criteria pollutant emissions inventories associated with the proposed Project, which include construction and operational emissions. Sub-categories of the operational emissions include: area sources, energy use, and mobile sources.

3.1 Methodology for Calculating Mass Emissions

This analysis focuses on the potential change in air quality due to implementation of the proposed Project. The proposed Project would result in criteria pollutant emissions from construction and operational sources. Construction activities would generate emissions at the site from on-site construction equipment, and on roadways resulting from construction-related truck hauling, vendor deliveries, and worker commuting. Operational activities would also generate emissions at the Project site from miscellaneous on-site sources, such as natural gas combustion for cooking and comfort heating and landscaping equipment, and off-site from operational-related traffic.

To estimate the criteria pollutant emissions from the proposed Project, Ramboll directly or indirectly relied primarily on emissions estimation guidance from government-sponsored organizations, the transportation study by Fehr & Peers Transportation Consultants, and emission estimation software.

CalEEMod®

Ramboll primarily utilized the California Emission Estimator Model version 2020.4.0 (CalEEMod®)⁷ to assist in quantifying the criteria air pollutant emissions in the inventories presented in this report for the proposed Project. CalEEMod® is a state-wide program designed to calculate both criteria and greenhouse gas (GHG) emissions from development projects in California.

CalEEMod® is based upon California Air Resources Board (ARB) approved Off-Road and On-Road Mobile-Source Emission Factor models (OFFROAD and EMFAC, respectively), and is designed to estimate construction and operational emissions for land use development projects and allows for the input of project-specific information. OFFROAD2011⁸ is an emissions factor model used in CalEEMod® to calculate emission rates from off-road mobile sources (e.g., construction equipment, agricultural equipment). EMFAC2017⁹ is the emissions factor model used in CalEEMod® to calculate emissions rates from on-road vehicles (e.g., passenger vehicles, haul trucks).

CalEEMod® provides a simple platform to calculate both construction emissions and operational emissions from a land use project. It calculates both the maximum daily and annual average emissions for criteria air pollutants as well as total or annual GHG emissions. The model also provides default values for water and energy use.

⁷ CAPCOA. 2021. California Emissions Estimator Model. Version 2020.4.0. Available at: <http://www.caleemod.com/>. Accessed: December 2022.

⁸ ARB. Overview: OFFROAD Model. Available at: https://www.arb.ca.gov/msei/offroad/pubs/offroad_overview.pdf. Accessed: December 2022.

⁹ ARB. 2017. EMFAC2017 Volume I - User's Guide. Available at: <https://www.arb.ca.gov/msei/downloads/emfac2017-volume-i-users-guide.pdf>. Accessed: December 2022.

CalEEMod® contains default values and existing regulatory methodologies to use in each specific local air district region. Appropriate statewide default values can be utilized if regional default values are not defined. Ramboll used default factors for Los Angeles - South Coast County area that is within the SCAQMD jurisdiction for the emission inventory, unless otherwise noted in the methodology descriptions below. Details regarding the specific methodologies used by CalEEMod® can be found in the CalEEMod® User's Guide and associated appendices.¹⁰ The CalEEMod® output files are provided for reference in **Appendix A** to this report.

3.2 Construction Emissions

This section describes the estimation of emissions from construction activities at the Project site. The major construction phases for the proposed Project included in this analysis are:

- Demolition: involves tearing down of the existing buildings on the Project site.
- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and stones prior to grading.
- Grading: involves the cut and fill of land to ensure the proper base and slope for the construction foundation.
- Building Construction: involves the construction of structures and buildings.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures.
- Paving: involves the laying of concrete or asphalt such as in parking lots or roads.

Emissions from these construction phases are largely attributable to fuel use from construction equipment and worker commuting.

Construction-related emissions of reactive organic gases (ROGs), NO_x, CO, PM₁₀, and PM_{2.5} were estimated using CalEEMod®. PM emissions are composed of exhaust emissions and fugitive emissions. Exhaust emissions are typically given out by a combustion engine of on-road vehicles and/or off-road equipment. Fugitive emissions are PM dust suspended in the air by wind action and construction-related activities.

Ramboll was provided with a construction start date and phase durations and relied upon CalEEMod® defaults to estimate the phasing schedule and numbers and types of equipment that will be used in each construction phase (i.e., demolition, grading) of the proposed Project. The number of worker and vendor vehicle trips are based on project-specific data. The number of hauling trips are based on CalEEMod® defaults estimated based on project-specific grading material movement and demolition waste volumes. The emission calculations are intended to estimate maximum daily emissions. Each piece of equipment was assumed to operate based on CalEEMod® default assumptions (i.e., load factor and operational hours). The construction is expected to commence in 2024 and is anticipated to be completed in 2027. The construction schedule, grading volumes, demolition waste volumes, and construction trip information are shown in **Table 4**, **Table 5**, **Table 6**, and **Table 7**, respectively. Construction emissions are estimated assuming one shift working up

¹⁰ SCAQMD. 2021. California Emissions Estimator Model User's Guide. Version 2020.4.0. Available at: <http://www.caleemod.com/>. Accessed: December 2022.

to 8 hours per day, for six days in a week. The CalEEMod® output files are included in **Appendix A**.

3.2.1 Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the assumptions summarized above. The fugitive emissions from off-road equipment performing work are also included in this analysis.

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. The calculations associated with on-site construction equipment include the running exhaust emissions from off-road equipment. Since the equipment is assumed to be diesel, there are no starting or evaporative emissions associated with the equipment as these are de minimis for diesel-fueled equipment. CalEEMod® calculates the exhaust emissions based on CARB's OFFROAD2011 methodology using the equation presented below.¹¹

$$Emissions_{Diesel} = \sum_i (EF_i \times Pop_i \times AvgHP_i \times Load_i \times Activity_i)$$

Where:

EF:	Emission factor in grams per horsepower-hour (g/bhp-hr) as processed from OFFROAD2011
Pop:	Population, or the number of pieces of equipment
AvgHp:	Maximum rated average horsepower
Load:	Load factor
Activity:	Hours of operation
i:	Equipment type

CalEEMod® was also used to calculate fugitive dust associated with the site preparation and grading phases, for example, from activities such as: haul road grading, earth bulldozing, and truck loading. For fugitive dust calculations during grading and site preparation, the maximum number of acres graded in a day is determined by the number of grading equipment, which is assumed to operate for up to eight hours. PM₁₀ and PM_{2.5} emissions from fugitive dust will be controlled by watering the construction site twice daily to represent compliance with SCAQMD Rule 403. CalEEMod® defaults assume watering the construction site two times a day reduces the fugitive dust emissions by 55%.

The emissions associated with off-road construction equipment during various phases of construction are shown in the CalEEMod® output files in **Appendix A**.

3.2.2 Emissions from On-Road Trips

Construction generates on-road vehicle exhaust (including evaporative emissions) and entrained road dust emissions from personal vehicles for worker/vendor commuting and trucks for soil/material hauling. These emissions are based on the number of trips and vehicle miles traveled (VMT) along with EMFAC2017 emission factors. The numbers of worker

¹¹ SCAQMD. 2021. California Emissions Estimator Model User's Guide, Appendix A, pages 6-8. Version 2020.4.0. Available at: <http://www.CalEEMod.com/>. Accessed: December 2022.

and vendor trips were based on project-specific data. The number of haul trips was estimated based on the volume of soil to be exported, the amount of building square footage demolished, and the CalEEMod[®] default assumption for haul truck capacity.

CalEEMod[®] methodology was also used to calculate on-road fugitive dust associated with paved and unpaved roads using the default emission factors from United States Environmental Protection Agency (USEPA) AP-42. The vehicle miles traveled from worker commuting, vendor commutes, soil hauling, and demolition hauling are accounted for in this analysis.

The emissions associated with on-road activities during various phases of construction can be seen in the CalEEMod[®] output files in **Appendix A**.

3.2.3 Emissions from Architectural Coating

VOC or VOC off-gassing emissions result from evaporation of solvents contained in surface coatings, such as paints. CalEEMod[®] calculates the VOC evaporative emissions from application of residential and non-residential surface coatings.

Emissions for coating categories were calculated based on default VOC content data from CalEEMod[®], which was provided by the air districts, including SCAQMD where the proposed Project would be located. The CalEEMod[®] default VOC content for SCAQMD is based on SCAQMD Rule 1113.

The emissions associated with architectural coating are included as a part of on-site construction emissions as shown in the CalEEMod[®] output file in **Appendix A**.

3.2.4 Maximum Daily Emissions from Construction

Since construction phases may or may not overlap in time, the maximum daily construction emissions will not necessarily be the sum of all possible daily emissions. CalEEMod[®], therefore, calculates the maximum daily emissions for each construction phase. The program will then add together the maximum daily emissions for each construction phase that overlaps in time. Finally, the program will report the highest of these combined overlapping phases as a daily maximum. The maximum daily CAP emissions estimated due to construction of the proposed Project are summarized in **Table ES-1**. The estimated emissions show that the regional daily emissions for construction are less than the SCAQMD mass daily significance thresholds for all pollutants. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant.

The construction emission estimates are assumed to conservatively represent the maximum emissions for the proposed Project. The proposed Project will comply with SCAQMD Rules and Regulations that require the use of low VOC containing coatings to minimize the potential VOC emissions.

3.3 Maximum Daily Emissions from Project Operation

Operational emissions are emissions that would occur after build-out of the proposed Project. This analysis identifies operational emissions for source categories including area sources, energy use, and mobile sources. The CAP operational mass emissions of VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} from area sources, mobile sources, and energy use were estimated using CalEEMod[®]. The CalEEMod[®] output can be found in **Appendix A**.

3.3.1 Area Sources

Area sources are emission sources that are generally too small to be uniquely identified as point sources, and are thus generally aggregated as a group. CalEEMod[®] estimates emissions for the following sources, which are included under the category of “area” sources: landscaping equipment (e.g., lawn mowers), hearths, consumer products, and architectural coatings. CAP emissions due to natural gas combustion in buildings could also be considered as an area source, but are reported by CalEEMod[®] in the emissions associated with building energy use (described below). The CAP emissions generated by the proposed Project were calculated using CalEEMod[®] defaults.

3.3.1.1 Landscaping Equipment

Landscape maintenance includes fuel combustion emissions from equipment such as lawnmowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. The mass emissions of VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} associated with landscaping equipment were calculated using the CalEEMod[®] default emission factors (i.e., grams per square foot per day for non-residential buildings and grams per dwelling unit per day for residential buildings), which were processed using OFFROAD2011 and ARB’s Technical Memo: Change in Population and Activity Factors for Lawn and Garden Equipment.¹² Based on CalEEMod[®] defaults, all operational days (i.e., 250 days per year) were assumed to be summer days, with no snow days. Therefore, the emission factors were multiplied by the total building square footage and the number of summer days. Pieces of equipment that would typically be used in snow conditions, such as snow blowers, were assumed to have no operational days.

3.3.1.2 Consumer Products

Consumer products are chemically formulated products used by institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; lawn and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. SCAQMD did an evaluation of consumer product use compared to the total square footage of buildings using data from ARB consumer product Emission Inventory. VOC emissions from consumer product use were estimated based on the Project building area along with the default VOC emission rate in CalEEMod[®]¹³ for Architectural Coatings.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. The operational emission methodology for architectural coating is the same as the construction emission methodology. All land use buildings are assumed to be repainted at a rate of 10% of area per year, based on CalEEMod[®] default assumptions.

3.3.1.3 Estimated Emissions from Area Sources

Operational emissions associated with area sources of the proposed Project are shown in CalEEMod[®] output file in **Appendix A** and summarized in **Table ES-2**. The primary source of

¹² ARB. 2003. Change in Population and Activity Factors for Lawn and Garden Equipment. Available at: https://ww3.arb.ca.gov/msei/2001_residential_lawn_and_garden_changes_in_eqpt_pop_and_act.pdf. Accessed: December 2022.

¹³ SCAQMD. 2021. California Emissions Estimator Model User’s Guide. Appendix A. Page 31. Version 2020.4.0. Available at: <http://www.caleemod.com>. Accessed: December 2022.

VOC emissions from area sources are consumer products, and the primary source of NO_x and CO emissions from area sources are landscaping equipment.

3.3.2 Building Energy Use

Criteria pollutants are emitted as a result of activities in buildings for which natural gas is typically used as an energy source. Combustion of any type of fuel emits criteria pollutants directly into the atmosphere; when this occurs in a building, this is a direct emission source associated with that building. CalEEMod[®] default emission factors for building energy reflect the 2019 Title 24 Part 6 building code. This is a conservative estimation of the Project energy use as the Project will meet the 2022 Title 24 Part 6 building code. Climate zone 8 was selected based on the Project location and CalEEMod[®] forecast climate zone map. The Project has no planned natural gas usage. Accordingly, the operational emissions are zero associated with building energy use of the proposed Project as shown in the CalEEMod[®] output file in **Appendix A** and summarized in **Table ES-2**.

3.3.3 Mobile Source Emissions

The CAP emissions associated with on-road mobile sources are generated from residents, workers, customers, and delivery vehicles visiting the land use types in the project. The emissions associated with on-road mobile sources includes running and starting exhaust emissions, evaporative emissions, brake and tire wear, and fugitive dust from paved and unpaved roads. Starting and evaporative emissions are associated with the number of starts or time between vehicle uses and the assumptions used in determining these values are described below. Idling exhaust emissions are based on the amount of time a vehicle spends idling. All of the other emissions are dependent on VMT. Ramboll used the Project-specific trip rates provided by the Fehr & Peers Transportation Consultants as inputs for the CalEEMod[®] model run.

3.3.3.1 Vehicle Trip Type

In CalEEMod[®], the trip type breakdown describes the purpose of the trip generated at each land use. For example, the trip type breakdown indicates the percentage of trips generated at single family home for work, for shopping, and for other purposes. Two sets of trip type breakdown are used in CalEEMod[®].¹⁴

- **Residential Trips** – These trips include home-work (H-W), home-shop (H-S), or home-other (H-O). An H-W trip represents the trip from the home to the workplace. An H-S trip represents the trip from the home to a land use where shopping takes place (generally retail). An H-O represents all other types of trips generated from the resident such as school, entertainment, etc. The trip type breakdown in CalEEMod[®] is from district-supplied information or the 1999 Caltrans Statewide Travel Survey is used as default or specific information obtained from the various Districts.
- **Commercial Trips** – These trips include commercial-customer (C-C), commercial-work (C-W) and commercial-nonwork (C-NW). A C-C trip represents a trip made by someone who is visiting the commercial land use to partake in the services offered by the site. The C-W trip represents a trip made by someone who is employed by the commercial land use. The C-NW trip represents a trip associated with the commercial land use other than

¹⁴ SCAQMD. 2021. California Emissions Estimator Model User's Guide, Appendix A, page 20. Version 2020.4.0. Available at: <http://www.CalEEMod.com/>. Accessed: December 2022.

by customers or workers. An example of C-NW trips includes trips made by delivery vehicles of goods associated with the land use. The trip type breakdown from the number of workers and or truck trips from Institute of Transportation Engineers and an analysis of information provided for the South Coast Air Basin (SCAB) was used as default to assign the trip type breakdowns for all land uses in CalEEMod®.

3.3.3.2 Trip Rates

Trip rates are one of the parameters used to calculate Project mobile source emissions. CalEEMod® relies upon trip generation rates by land use types and associated average trip length by trip type to estimate the criteria air pollutant emissions. Project-specific trip rates provided by the Fehr & Peers Transportation Consultants were used as input for the CalEEMod® model run. These are presented in **Table 8**.

3.3.3.3 Trip Length

Trip lengths are another factor used to calculate Project mobile source emissions. Total VMT by mobile sources is estimated as a product of trip rates and the average trip length. The default CalEEMod® trip lengths for Los Angeles County located within SCAQMD jurisdiction were used.

3.3.3.4 Vehicle Fleet Mix

Vehicle fleet mix is another parameter used to estimate mobile source emissions from Project operation. Each vehicle type has a different emission factor for each pollutant, so CalEEMod® relies upon vehicle fleet mixes by land use type to estimate the criteria air pollutant emissions for each land use. The CalEEMod® default fleet mix for the portion of Los Angeles County located within SCAQMD jurisdiction was used in this analysis.

3.3.3.5 Estimated Emissions from Mobile Sources

Operational emissions associated with operational mobile sources of the proposed Project are shown in CalEEMod® output file in **Appendix A** and summarized in **Table ES-2**.

3.3.4 Operational Emissions Results

The regional daily emissions estimated due to Project operations are summarized in **Table ES-2**. These emissions were estimated using the methodology as described above. The estimated emissions include on-site emissions from stationary sources and off-site emissions from on-road sources. The primary source of the operational emissions is the traffic mobile sources.

For criteria air pollutants, the emissions for existing uses are subtracted from the full buildout mass emissions, to get the Project emissions, which are then compared to the SCAQMD mass daily significance thresholds. As shown in **Table ES-2**, the maximum daily emissions for the proposed Project's operational activities are less than the SCAQMD mass daily significance thresholds for all CAPs, i.e. VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5}. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

4. COMPLIANCE WITH AMBIENT AIR STANDARDS

4.1 Localized Significance Thresholds

As discussed in Section 2, the LSTs are used to evaluate the construction and operational emissions relative to the SCAQMD ambient air quality standard significance thresholds. The on-site construction and operational emissions for NO_x, CO, PM₁₀, and PM_{2.5} are compared to their respective thresholds provided in Appendix C of SCAQMD's LST Methodology.¹⁵ The Source Receptor Area (SRA) applicable to the Project is SRA Number 3, Southwest Coastal Los Angeles County, based on Project location. As a conservative approach, the thresholds chosen are for a Project site area of five acres since there is no published threshold specifically for the Project site area of 5.25 acres. The receptor distance was chosen based on the lowest, and thus conservative, threshold for each pollutant for the "5-acre" LST. While the exact construction schedule and equipment mix may vary from the current analysis, the maximum daily emissions are not expected to be higher than that estimated given the conservative assumptions included in this analysis.

As shown in **Table ES-3**, the maximum daily on-site emissions for Project construction and operation are less than the SCAQMD mass-rate Localized Significance Thresholds¹⁶ for NO_x, CO, PM₁₀, and PM_{2.5}. Since the screening analysis shows that the construction and operational emissions are below the mass-rate LSTs, the Project's contribution to the localized air concentrations of these pollutants would be less than significant and further air dispersion modeling is not required.

The construction emissions are based on conservative assumptions to represent the maximum level of construction activity that may occur on the Project site on a given day. Furthermore, the construction LST analysis is based on the combination of maximum emissions that may occur with the worst-case meteorological conditions. Thus, these are conservatively high estimates and may never occur.

4.2 Localized Carbon Monoxide Impacts

Based on the analysis presented below, a CO "hot spots" analysis is not needed to determine whether the change in the level of service (LOS) of an intersection in the Project would have the potential to result in exceedances of the California Ambient Air Quality Standards or National Ambient Air Quality Standards.

It has long been recognized that CO exceedances are caused by vehicular emissions,¹⁷ primarily when idling at intersections.^{18, 19} Accordingly, vehicle emissions standards have become increasingly more stringent. Before the first vehicle emission regulations, cars in the

¹⁵ SCAQMD. 2008. Final Localized Significance Threshold Methodology. Appendix C. July. Available at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>. Accessed: December 2022.

¹⁶ SCAQMD, 2008. Final Localized Significance Threshold Methodology. Appendix C. July. Available at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>. Accessed: December 2022.

¹⁷ USEPA. 2000. Air Quality Criteria for Carbon Monoxide. EPA 600/P-099/001F. June.

¹⁸ SCAQMD. 1993. CEQA Air Quality Handbook. Section 4.5. April.

¹⁹ SCAQMD. 2003. Air Quality Management Plan. August.

1950s were typically emitting about 87 grams of CO per mile.²⁰ Since the first regulation of CO emissions from vehicles (model year 1966) in California, vehicle emissions standards for CO applicable to light-duty vehicles have decreased by 96% for automobiles^{21, 22} and new cold weather CO standards have been implemented, effective for the 1996 model year.²³ Currently, the CO standard in California is a maximum of 3.4 grams/mile for passenger cars (with provisions for certain cars to emit even less).²⁴ With the turnover of older vehicles, introduction of cleaner fuels and implementation of control technology on industrial facilities, CO concentrations in the SCAQMD have steadily declined.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan).²⁵ As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans.

In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: Long Beach Boulevard and Imperial Highway (Lynwood) Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm.²⁶ The most recent three years (2018 through 2020) of background 1-hour CO concentrations in the project vicinity range from 1.6 to 1.8 ppm.²⁷ This indicates that the most stringent 1-hour CO standard (20.0 ppm) would likely not be exceeded until the daily traffic at the intersection exceeded more than 400,000 vehicles per day.²⁸ The Los Angeles

²⁰ USEPA. 1994. Milestones in Auto Emissions Control. August. Available at:

<https://nepis.epa.gov/Exe/tiff2png.cgi/P10001KM.PNG?-r+75+-g+7+D%3A%5CZYFILES%5CINDEX%20DATA%5C91THRU94%5CTIFF%5C00001818%5CP10001KM.TIF>. Accessed: December 2022.

²¹ National Academy Board on Energy and Environmental Systems. 2008. Review of the 21st Century Truck Partnership. Appendix D: Vehicle Emission Regulations [excerpt from http://books.nap.edu/openbook.php?record_id=12258&page=107].

²² Kavanagh, Jason. 2008. Untangling U.S. Vehicle Emissions Regulations.

²³ Title 13. California Code of Regulations. Section 1960.1(f)(2) [for 50,000-mile half-life].

²⁴ CARB, 2010. Available at: <https://ww2.arb.ca.gov/sites/default/files/2019-07/cleancomplete%20lev-ghg%20regs%2010-19.pdf>. Accessed: December 2022.

²⁵ SCAQMD. 1992. Federal Attainment Plan for Carbon Monoxide.

²⁶ It is conservatively assumed that 4.6 ppm does not account for background CO concentration.

²⁷ SCAQMD Historical Data by Year for Source/Receptor Area 3. Available at: <https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year>. Accessed: December 2022.

²⁸ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

County Metropolitan Transportation Authority evaluated the LOS in the vicinity of the Wilshire Boulevard/Veteran Avenue intersection²⁹ and found it to be Level E at peak morning traffic and Level F at peak afternoon traffic.³⁰

Given that the new trips generated by the Project (~1,713 one-way net trips per weekday, see **Table 8** for trip rate assumptions for Proposed Project and existing uses) is approximately 0.4% of the daily traffic volumes that would be expected to generate CO exceedances as evaluated in the 2003 AQMP, the average daily traffic volumes at the intersections impacted by the project for the 2027 plus Project scenario is not expected to result in an exceedance the 1-hour CO standard.

4.3 Odors

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source, the wind speeds and direction, and the sensitivity of the receiving location each contribute to the intensity of the impact. While offensive odors rarely cause any physical harm, they can be unpleasant and cause distress among the public and generate citizen complaints. According to the SCAQMD, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Project does not include any uses identified by the SCAQMD as being associated with odors, and thus the Project does not anticipate any odor impacts.

4.4 Consistency Evaluation with SB 375 (SCAG RTP/SCS)

The Southern California Association of Governments (SCAG) RTP is a long-range transportation plan that is developed and updated by SCAG every four years. The RTP provides a vision for transportation investments throughout the region and the SCS will integrate land use and transportation strategies.³¹

The 2020-2045 RTP/SCS projects an increase of 1.6 million households in the region and 800,000 households in Los Angeles County from 2016 to 2045. For Gardena, the 2020-2045 RTP/SCS projects an increase of 2,900 households between 2016 and 2045.³² The Project has 403 households, which is approximately 0.03% of the projected household growth for the region and approximately 0.05% of the projected household growth for Los Angeles County. In addition, the Project was compared against the RTP/SCS forecasts and network changes included in the 2020 SCAG RTP model. Given that the Project would not result in any changes to the existing transportation network, and would be increasing housing density in urban infill areas near transit, it is consistent with the RTP/SCS. Accordingly, the Project's generation of employees would be consistent with the employment projections contained in

²⁹ The Metropolitan Transportation Authority measured traffic volumes and calculated the LOS for the intersection Wilshire Blvd/ Sepulveda Avenue, which is a block west along Wilshire Boulevard, still east of Highway 405.

³⁰ Metropolitan Transportation Authority. 2004. Congestion Management Program for Los Angeles County. Exhibit 2-6 and Appendix A. July 22.

³¹ 2020. The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments. Available at: https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial-plan_0.pdf?1606001176. Accessed: December 2022.

³² 2020. Current Context: Demographics and Growth Forecast. Available at: https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579. Accessed: December 2022.

the 2016-2040 RTP/SCS. Because the 2016-2040 RTP/SCS projections form the basis of the 2016 AQMP, the Project would be consistent with the projections in the AQMP. Therefore, the Project is consistent with SCAG's 2020 RTP/SCS and the SCAQMD 2016 AQMP.

4.5 Consistency Evaluation with SCAQMD's 2016 Air Quality Management Plan

In accordance with SCAQMD's *CEQA Air Quality Handbook*, Chapter 12, a project is consistent with SCAQMD's 2016 Air Quality Management Plan (AQMP), if it would result in no air quality violations and if it is consistent with the population, housing, and employment assumptions that were used in the development of the AQMP. In the case of the 2016 AQMP, two sources of data form the basis for the projections of air pollutant emissions: the City's General Plan and SCAG's 2016-2040 RTP/SCS. As noted above, the 2020-2045 RTP/SCS has recently been adopted and is anticipated to form the basis of the next AQMP.

As analyzed above, the project would not result in an air quality violation. The project is also consistent with the population and housing assumptions that were assumed in the 2016-2040 RTP/SCS. The 2016-2040 RTP/SCS projects an increase of 3.4 million residents in the region and 1.4 million residents in Los Angeles County from 2015 to 2040. For Gardena, the 2016-2040 RTP/SCS projects an increase of 3,600 households and 9,300 residents between 2012 and 2040.³³ The Project proposes 403 households, and therefore is well within the growth assumptions of the 2016-2040 RTP/SCS.

Because the project would not result in an air quality violation and is consistent with the growth assumptions underlying the 2016-2040 RTP/SCS, it is consistent with the 2016 AQMP.

4.6 Construction Health Risk Assessment

A health risk assessment has been performed by Air Quality Dynamics to assess the risk to nearby receptors due to construction of the project. Please see the Air Quality Dynamics 16911 South Normandie Gardena Development - Construction Health Risk Assessment Report for further details.

³³ 2020. Current Context: Demographics and Growth Forecast. Available at: https://scaq.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579. Accessed: December 2022.

5. SUMMARY OF RESULTS

Table ES-1 presents the maximum daily CAP emissions associated with Project construction. The proposed Project will comply with SCAQMD Rule 403 to minimize fugitive dust, which is incorporated into this analysis. As shown in **Table ES-1**, emissions of all CAPs are less than SCAQMD's mass daily significance thresholds. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant.

Table ES-2 presents the maximum daily criteria air pollutant emissions associated with Project operation. The primary source of the operational CAP emissions (except VOC) is traffic-related mobile sources. As shown in **Table ES-2**, net emissions of all CAPs for the proposed Project as compared to the existing conditions are less than SCAQMD's mass daily significance thresholds. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

The localized air quality impacts of Project construction and operational activities were evaluated using SCAQMD's LST methodology. As shown in **Table ES-3**, Project-related on-site construction and operational emissions would not result in an exceedance of LSTs for nitrogen dioxide (NO₂), CO, PM₁₀, and PM_{2.5} standards. Therefore, the Project's contribution to the localized air concentrations of these pollutants would be less than significant.

TABLES

Table ES-1. Maximum Daily Criteria Air Pollutant Emission Estimates for Project Construction
 Normandie Crossing Specific Plan Project
 Gardena, California

Year	Maximum Daily Criteria Air Pollutant Emissions ^{1,2,3} (lb/day)					
	VOC ⁴	NO _x	CO	SO _x	PM ₁₀ ⁵	PM _{2.5} ⁵
Construction						
2024	1.2	5.7	24.9	0.1	8.8	4.7
2025	1.4	4.0	27.3	0.1	3.6	1.0
2026	10.8	3.9	28.2	0.1	3.6	1.0
2027	10.8	2.6	27.7	0.1	3.5	1.0
Maximum Daily ⁶	11	6	28	0	9	5
SCAQMD Significance Threshold ⁷	75	100	550	150	150	55
Above Threshold	NO	NO	NO	NO	NO	NO

Notes:

¹ Emissions shown here are based on Project-specific construction schedule, hauling material, and on-road vehicle trips. CalEEMod[®] defaults were used for on-site construction equipment mix. Emissions were estimated using CalEEMod[®]. Refer to Appendix A for detailed CalEEMod[®] outputs.

² Project construction assumes the use of USEPA Tier 4 for construction equipment greater than 50 hp.

³ Numbers are rounded for reporting purposes.

⁴ For purposes of this analysis the VOC emissions are assumed to be equal to ROG.

⁵ PM emissions are estimated as a sum of exhaust, tire wear, brake wear, and fugitive dust emissions. PM fugitive dust emissions during construction include a 55% reduction (for watering at least two times daily to comply with SCAQMD Rule 403).

⁶ The maximum emissions reported for each pollutant may occur on different days. The sum of the emissions may not add up due to rounding.

⁷ SCAQMD Air Quality Significance Thresholds. Available at <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>. Accessed: November 2022.

Abbreviations:

CalEEMod[®] - CALifornia Emissions Estimator MODEL

CO - carbon monoxide

lb - pounds

NO_x - nitrogen oxides

PM - particulate matter

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ROG - reactive organic gases

SCAQMD - South Coast Air Quality Management District

SO_x - oxides of sulfur

VOC - volatile organic compounds

Table ES-2. Maximum Daily Net Criteria Air Pollutant Emission Estimates for Project Operation
 Normandie Crossing Specific Plan Project
 Gardena, California

Emission Source	Maximum Daily Criteria Air Pollutant Emission Estimates ¹ (lb/day)					
	VOC ²	NO _x	CO	SO _x	PM ₁₀ ³	PM _{2.5} ³
Full Buildout Operations⁴						
Area	8.8	0.4	33.3	0.00	0.18	0.18
Energy ⁵	0.0	0.0	0.0	0.0	0.0	0.0
Mobile	5.4	5.6	53.8	0.12	14.10	3.81
<i>Total</i>	<i>14.2</i>	<i>6.0</i>	<i>87.1</i>	<i>0.1</i>	<i>14.3</i>	<i>4.0</i>
Existing Conditions⁴						
Area	2.4	0.0	0.0	0.00	0.00	0.00
Energy	0.0	0.1	0.1	0.00	0.01	0.01
Mobile	0.7	1.0	8.0	0.02	1.65	0.45
<i>Total</i>	<i>3.1</i>	<i>1.1</i>	<i>8.1</i>	<i>0.0</i>	<i>1.7</i>	<i>0.5</i>
Proposed Project⁶						
Proposed Project	11	5	79	0	13	4
SCAQMD Significance Thresholds ⁷	55	55	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

¹ Numbers are rounded for reporting purposes. The sum of the emissions may not add up due to rounding.

² For purposes of this analysis VOC emissions are assumed to be equal to ROG.

³ PM emissions for mobile sources are estimated as a sum of exhaust emissions, tire wear, brake wear, and entrained road dust.

⁴ Emissions for proposed Project and existing conditions were estimated using CalEEMod[®]. Refer to Appendix A for CalEEMod[®] outputs.

⁵ There are zero energy criteria air pollutant emissions for Full Buildout Operations as there is no natural gas usage.

⁶ The Proposed Project is the Full Buildout Operations minus the Existing Conditions.

⁷ SCAQMD Air Quality Significance Thresholds. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>. Accessed: November 2022.

Abbreviations:

CalEEMod[®] - CALifornia Emissions Estimator MODeL

CAP - criteria air pollutant

CO - carbon monoxide

EMFAC - Emission FACtors model

lbs - pounds

NO_x - oxides of nitrogen

PM_{2.5} - particulate matter less than 2.5 microns in diameter

PM₁₀ - particulate matter less than 10 microns in diameter

ROG - reactive organic gases

SCAQMD - South Coast Air Quality Management District

SO_x - oxides of sulfur

VOC - volatile organic compounds

Table ES-3. Comparison of On-site Project Emissions to SCAQMD Localized Significance Thresholds

Normandie Crossing Specific Plan Project
Gardena, California

Scenario	Maximum Daily On-site Emissions ¹ (lb/day)				
	CO	NO _x	1-hour NO _x ²	PM ₁₀ ³	PM _{2.5} ³
Construction					
Construction ⁴	23.3	2.6	2.6	8.5	4.6
SCAQMD LSTs ⁵	1,796	197	109	15	8
Exceeds SCAQMD LSTs?	NO	NO	NO	NO	NO
Operation - Project					
Project Total ⁴	33.8	0.4	0.4	0.3	0.2
SCAQMD LSTs ⁵	1,796	197	109	4	2
Exceeds SCAQMD LSTs?	NO	NO	NO	NO	NO

Notes:

¹ Emissions represent the change in on-site emissions due to the proposed land uses relative to emissions from the existing conditions.

² An approximated LST was estimated to evaluate the federal 1-hour NO₂ standard, as the SCAQMD LST has not been updated to reflect this standard. This value was estimated by scaling the SCAQMD LST that represents the state 1-hr NO₂ standard with the ratio of the federal to state 1-hr NO₂ standard (0.10 ppm/0.18 ppm).

³ PM fugitive dust emissions during construction include a 55% reduction (for watering at least two times daily to comply with SCAQMD Rule 403).

⁴ Construction and Project Total emissions presented are on-site emissions.

⁵ LSTs based on a 5-acre project site SRA 3 (Southwest Coastal LA County) for a 25-m receptor distance. LSTs were obtained from the 2008 SCAQMD Final Localized Significance Threshold Methodology, Appendix C, Mass Rate LST Look-up Tables. Available at: <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>. Accessed: November 2022.

Abbreviations:

CO - carbon monoxide

lb - pounds

LST - localized significance threshold

NO₂ - nitrogen dioxide

NO_x - nitrogen oxides

PM₁₀ - particulate matter less than 10 microns in aerodynamic diameter

PM_{2.5} - particulate matter less than 2.5 microns in aerodynamic diameter

ppm - parts per million

SCAQMD - South Coast Air Quality Management District

Table 1. Project Land Uses
 Normandie Crossing Specific Plan Project
 Gardena, California

Project Land Use	CalEEMod [®] Land Use Type	CalEEMod [®] Land Use Subtype ¹	Land Use Size	Land Use Size Metric	Acreage
Apartments	Residential	Apartments Mid Rise	328	DU	2.32
Townhouses	Residential	Condos/Townhouses	75	DU	2.93
Parking	Parking	Enclosed Parking with Elevator	559	spaces	1.59
Swimming Pools	Recreational	Recreational Swimming Pool	1.6	1000sqft	0.04

Notes:

¹ Land uses as defined in CalEEMod[®].

Abbreviations:

CalEEMod[®] - California Emissions Estimator Model
 DU - dwelling unit

Table 2. Existing Land Uses
 Normandie Crossing Specific Plan Project
 Gardena, California

Project Land Use	CalEEMod [®] Land Use Type	CalEEMod [®] Land Use Subtype ¹	Land Use Size	Land Use Size Metric
Warehouse	Industrial	Refrigerated Warehouse-Rail	6.64	1000 sqft
Warehouse	Industrial	Unrefrigerated Warehouse-Rail	78.93	1000 sqft
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	20.53	1000 sqft

Notes:

¹ Land uses as defined in CalEEMod[®].

Abbreviations:

CalEEMod[®] - California Emissions Estimator Model

sqft - square feet

Table 3. SCAQMD Air Quality Significance Criteria
 Normandie Crossing Specific Plan Project
 Gardena, California

Mass Daily Thresholds (lbs/day)		
Pollutant	Construction	Operation
Oxides of Nitrogen (NO _x)	100	55
Volatile Organic Compounds (VOC)	75	55
Respirable Particulate Matter (PM ₁₀)	150	150
Fine Particulate Matter (PM _{2.5}) ²	55	55
Oxides of Sulfur (SO _x)	150	150
Carbon Monoxide (CO)	550	550
Odor Threshold		
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants		
NO ₂ 1-hour average Annual Arithmetic Mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)	
PM ₁₀ 24-hour Average Annual Average	10.4 µg/m ³ (construction); 2.5 µg/m ³ (operation) 1.0 µg/m ³	
PM _{2.5} 24-hour Average	10.4 µg/m ³ (construction); 2.5 µg/m ³ (operation)	
CO 1-hour Average 8-hour Average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
Localized Significance Thresholds for Construction ²		
NO _x	197 lb/day 109 ³ lb/day	
PM ₁₀	15 lb/day	
PM _{2.5}	8 lb/day	
CO	1,796 lb/day	
Localized Significance Thresholds for Operation ²		
NO _x	197 lb/day 109 ³ lb/day	
PM ₁₀	4 lb/day	
PM _{2.5}	2 lb/day	
CO	1,796 lb/day	

Notes:

¹ SCAQMD Air Quality Significance Thresholds. Available at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>. Accessed: November 2022.

² LSTs based on Southwest Coastal Los Angeles County construction LSTs for a 5-acre site based on the given 5-acre threshold for a 25-m receptor distance. Obtained from <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>. Accessed: November 2022.

³ An approximated LST was estimated to evaluate the federal 1-hour NO₂ standard, as the SCAQMD LST has not been updated to reflect this standard. This value was estimated by scaling the SCAQMD LST that represents the state 1-hour NO₂ standard with the ratio of the federal to state 1-hour NO₂ standard (0.10 ppm/0.18 ppm).

Abbreviations:

µg/m³ - micrograms per cubic meter

CO - carbon monoxide

lb - pound

NO_x - nitrogen oxide compounds (NO + NO₂)

PM₁₀ - particulate matter less than 10 microns in diameter

PM_{2.5} - particulate matter less than 2.5 microns in diameter

ppm - parts per million

VOC - volatile organic compounds

SCAQMD - South Coast Air Quality Management District

SO_x - sulfur oxide compounds

Table 4. Construction Schedule
 Normandie Crossing Specific Plan Project
 Gardena, California

Construction Phase Name ¹	CalEEMod [®] Phase Type ¹	Start Date ¹	End Date ¹	Phase Duration ² (days)
Demolition	Demolition	6/30/2024	8/30/2024	53
Site Preparation	Site Preparation	8/31/2024	9/30/2024	26
Site Grading/Excavation	Grading	10/1/2024	11/29/2024	52
Twnhouse & Apartment Foundations and Garages	Building Construction	11/30/2024	9/1/2025	236
Twnhouse & Apartment Framing / Rough-In	Building Construction	9/2/2025	12/1/2026	391
Architectural Coating	Architectural Coating	12/2/2026	9/2/2027	236
Paving	Paving	12/2/2026	9/2/2027	236

Notes:

¹ Construction phases and duration are based on Project-specific estimates.

² The construction work week was assumed to be 6 days per week.

Abbreviations:

CalEEMod[®] - California Emissions Estimator Model

Table 5. Grading Volumes
Normandie Crossing Specific Plan Project
Gardena, California

Phase Name	Material Imported ¹ (yd ³)	Material Exported ¹ (yd ³)
Site Grading/Excavation	0	10,000

Notes:

¹ Soil export quantities based on project-specific data.

Abbreviations:

yd³ - cubic yard

Table 6. Demolition Waste Volumes
Normandie Crossing Specific Plan Project
Gardena, California

Phase Name	Size Metric	Unit Amount ¹
Demolition	Building Square Footage	115,424

Notes:

¹ Debris quantity based on project-specific data.

Abbreviations:

Table 7. Construction Vehicle Trip Rates
 Normandie Crossing Specific Plan Project
 Gardena, California

Construction Phase Name	Worker Trips per Day ¹	Vendor Trips per Day ¹
Demolition	30	20
Site Preparation	30	6
Site Grading/Excavation	30	20
Twnhouse & Apartment Foundations and Garages	200	10
Twnhouse & Apartment Framing / Rough-In	300	20
Paving	150	10
Architectural Coating	150	10

Notes:

¹ Trips are presented as one-way trips and are based on Project Construction Schedule. Haul trips are based on material movement volumes and CalEEMod[®] default assumptions and are not shown.

Abbreviations:

CalEEMod[®] - California Emissions Estimator Model

Table 8. Operational Mobile Source Trip Rates
 Normandie Crossing Specific Plan Project
 Gardena, California

Project Land Use Type	CalEEMod [®] Land Use Type	CalEEMod [®] Land Use Sub-Type	Land Use Size	Land Use Metric	Trip Rates (trips/size metric/day) ^{1,2}			Daily Trip Rates (one-way trips/day)		
					Weekday ¹	Saturday ²	Sunday ²	Weekday	Saturday	Sunday
Full Buildout Operations										
Townhomes	Residential	Condos/Townhouses	75	DU	6.40	7.12	5.49	480	534	412
Apartments	Residential	Apartments Mid Rise	328	DU	4.31	3.89	3.24	1,415	1,277	1,064
Unenclosed Parking	Parking	Enclosed Parking with Elevator	559	spaces	0.00	0.00	0.00	0	0	0
Swimming Pools	Recreational	Recreational Swimming Pool	1.6	TSF	0.00	0.00	0.00	0	0	0
Full Buildout Total								1,895	1,811	1,476
Existing Conditions										
Warehouse	Industrial	Refrigerated Warehouse-Rail	6.64	1000 sqft	1.71	1.71	1.71	11	11	11
Warehouse	Industrial	Unrefrigerated Warehouse-Rail	78.933	1000 sqft	1.71	1.71	1.71	135	135	135
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	20.527	1000 sqft	1.71	1.71	1.71	35	35	35
Existing Conditions Total								182	182	182
Proposed Project										
Net New Trips								1,713	1,629	1,294

Notes:

¹ Project-specific weekday trip rates were provided by *Fehr & Peers Transportation Consultants*.

² Weekend trip rates are estimated by multiplying the weekday daily trip rates by the ratio of the default CalEEMod[®] weekend to weekday daily trips.

Abbreviations:

CalEEMod[®] - California Emissions Estimator Model

DU - dwelling unit

sqft - square feet

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Air Quality Technical Report
Normandie Crossing Specific Plan Project
Gardena, California

APPENDIX A
CALEEMOD® OUTPUT FILES

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

Saiko Normandie Apartments - Existing

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-Rail	6.64	1000sqft	0.15	6,640.00	0
Unrefrigerated Warehouse-Rail	78.93	1000sqft	1.81	78,930.00	0
Unrefrigerated Warehouse-No Rail	20.53	1000sqft	0.47	20,530.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	434.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS in 2021

Land Use -

Construction Phase - Operational emissions only for the project.

Off-road Equipment - Project-specific data.

Grading - Project- specific data.

Trips and VMT - Project-specific data.

Architectural Coating - Project-specific data.

Vehicle Trips - Trip rates from project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

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Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,050.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	159,150.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	PhaseEndDate	1/11/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	12/14/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	2/10/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	12/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/11/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	12/15/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	1/1/2020
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	434.98
tblTripsAndVMT	VendorTripNumber	17.00	0.00
tblTripsAndVMT	WorkerTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblVehicleTrips	ST_TR	2.12	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	2.12	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	2.12	1.71
tblVehicleTrips	WD_TR	1.74	1.71
tblVehicleTrips	WD_TR	1.74	1.71

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

2.0 Emissions Summary

	ROG	NOx	CO	SO2	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)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003
Energy	2.1200e-003	0.0193	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	130.5893	130.5893	8.7200e-003	1.3900e-003	131.2222
Mobile	0.1240	0.1849	1.4282	3.0100e-003	0.2921	3.0200e-003	0.2952	0.0779	2.8300e-003	0.0808	0.0000	278.0773	278.0773	0.0185	0.0122	282.1767
Waste						0.0000	0.0000		0.0000	0.0000	20.2443	0.0000	20.2443	1.1964	0.0000	50.1544
Water						0.0000	0.0000		0.0000	0.0000	7.7840	63.0342	70.8183	0.8043	0.0195	96.7235
Total	0.5588	0.2042	1.4458	3.1300e-003	0.2921	4.4800e-003	0.2966	0.0779	4.2900e-003	0.0822	28.0283	471.7034	499.7317	2.0279	0.0331	560.2795

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003
Energy	2.1200e-003	0.0193	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	130.5893	130.5893	8.7200e-003	1.3900e-003	131.2222
Mobile	0.1240	0.1849	1.4282	3.0100e-003	0.2921	3.0200e-003	0.2952	0.0779	2.8300e-003	0.0808	0.0000	278.0773	278.0773	0.0185	0.0122	282.1767
Waste						0.0000	0.0000		0.0000	0.0000	20.2443	0.0000	20.2443	1.1964	0.0000	50.1544
Water						0.0000	0.0000		0.0000	0.0000	7.7840	63.0342	70.8183	0.8043	0.0195	96.7235
Total	0.5588	0.2042	1.4458	3.1300e-003	0.2921	4.4800e-003	0.2966	0.0779	4.2900e-003	0.0822	28.0283	471.7034	499.7317	2.0279	0.0331	560.2795

	ROG	NOx	CO	SO2	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	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	

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4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0
5	Paving	Paving	1/1/2020	12/31/2019	5	0
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37

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Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation		0			
Paving		0			

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1240	0.1849	1.4282	3.0100e-003	0.2921	3.0200e-003	0.2952	0.0779	2.8300e-003	0.0808	0.0000	278.0773	278.0773	0.0185	0.0122	282.1767
Unmitigated	0.1240	0.1849	1.4282	3.0100e-003	0.2921	3.0200e-003	0.2952	0.0779	2.8300e-003	0.0808	0.0000	278.0773	278.0773	0.0185	0.0122	282.1767

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-Rail	11.35	11.35	11.35	48,662	48,662
Unrefrigerated Warehouse-No Rail	35.11	35.11	35.11	150,456	150,456
Unrefrigerated Warehouse-Rail	134.97	134.97	134.97	578,444	578,444
Total	181.43	181.43	181.43	777,562	777,562

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
Refrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-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
Refrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

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Unrefrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
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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	109.6204	109.6204	8.3200e-003	1.0100e-003	110.1287
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	109.6204	109.6204	8.3200e-003	1.0100e-003	110.1287
NaturalGas Mitigated	2.1200e-003	0.0193	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9689	20.9689	4.0000e-004	3.8000e-004	21.0935
NaturalGas Unmitigated	2.1200e-003	0.0193	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9689	20.9689	4.0000e-004	3.8000e-004	21.0935

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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					
Refrigerated Warehouse-Rail	6042.4	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3225	0.3225	1.0000e-005	1.0000e-005	0.3244
Unrefrigerated Warehouse-No Rail	79861.7	4.3000e-004	3.9100e-003	3.2900e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2617	4.2617	8.0000e-005	8.0000e-005	4.2871
Unrefrigerated Warehouse-Rail	307038	1.6600e-003	0.0151	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.3847	16.3847	3.1000e-004	3.0000e-004	16.4821
Total		2.1200e-003	0.0193	0.0162	1.1000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9689	20.9689	4.0000e-004	3.9000e-004	21.0935

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Refrigerated Warehouse-Rail	6042.4	3.0000e-005	3.0000e-004	2.5000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3225	0.3225	1.0000e-005	1.0000e-005	0.3244
Unrefrigerated Warehouse-No Rail	79861.7	4.3000e-004	3.9100e-003	3.2900e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2617	4.2617	8.0000e-005	8.0000e-005	4.2871
Unrefrigerated Warehouse-Rail	307038	1.6600e-003	0.0151	0.0126	9.0000e-005		1.1400e-003	1.1400e-003		1.1400e-003	1.1400e-003	0.0000	16.3847	16.3847	3.1000e-004	3.0000e-004	16.4821
Total		2.1200e-003	0.0193	0.0162	1.1000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9689	20.9689	4.0000e-004	3.9000e-004	21.0935

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-Rail	147806	29.1627	2.2100e-003	2.7000e-004	29.2980
Unrefrigerated Warehouse-No Rail	84173	16.6076	1.2600e-003	1.5000e-004	16.6847
Unrefrigerated Warehouse-Rail	323613	63.8500	4.8400e-003	5.9000e-004	64.1461
Total		109.6204	8.3100e-003	1.0100e-003	110.1287

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Refrigerated Warehouse-Rail	147806	29.1627	2.2100e-003	2.7000e-004	29.2980
Unrefrigerated Warehouse-No Rail	84173	16.6076	1.2600e-003	1.5000e-004	16.6847
Unrefrigerated Warehouse-Rail	323613	63.8500	4.8400e-003	5.9000e-004	64.1461
Total		109.6204	8.3100e-003	1.0100e-003	110.1287

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003
Unmitigated	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003

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	0.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003
Total	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0492					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003
Total	0.4327	1.0000e-005	1.3600e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.6300e-003	2.6300e-003	1.0000e-005	0.0000	2.8100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	70.8183	0.8043	0.0195	96.7235
Unmitigated	70.8183	0.8043	0.0195	96.7235

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Refrigerated Warehouse-Rail	1.5355 / 0	4.4320	0.0503	1.2200e-003	6.0532
Unrefrigerated Warehouse-No Rail	4.74756 / 0	13.7031	0.1556	3.7600e-003	18.7157
Unrefrigerated Warehouse-Rail	18.2526 / 0	52.6832	0.5983	0.0145	71.9546
Total		70.8183	0.8043	0.0195	96.7235

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

7.2 Water by Land Use

Mitigated

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e	
Mgal	MT/yr				
Refrigerated Warehouse-Rail	1.5355 / 0	4.4320	0.0503	1.2200e-003	6.0532
Unrefrigerated Warehouse-No Rail	4.74756 / 0	13.7031	0.1556	3.7600e-003	18.7157
Unrefrigerated Warehouse-Rail	18.2526 / 0	52.6832	0.5983	0.0145	71.9546
Total		70.8183	0.8043	0.0195	96.7235

8.0 Waste Detail

8.1 Mitigation Measures Waste

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.2443	1.1964	0.0000	50.1544
Unmitigated	20.2443	1.1964	0.0000	50.1544

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-Rail	6.24	1.2667	0.0749	0.0000	3.1381
Unrefrigerated Warehouse-No Rail	19.3	3.9177	0.2315	0.0000	9.7060
Unrefrigerated Warehouse-Rail	74.19	15.0599	0.8900	0.0000	37.3103
Total		20.2443	1.1964	0.0000	50.1544

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Refrigerated Warehouse-Rail	6.24	1.2667	0.0749	0.0000	3.1381
Unrefrigerated Warehouse-No Rail	19.3	3.9177	0.2315	0.0000	9.7060
Unrefrigerated Warehouse-Rail	74.19	15.0599	0.8900	0.0000	37.3103
Total		20.2443	1.1964	0.0000	50.1544

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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Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Annual

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

11.0 Vegetation

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

**Saiko Normandie Apartments - Existing
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-Rail	6.64	1000sqft	0.15	6,640.00	0
Unrefrigerated Warehouse-Rail	78.93	1000sqft	1.81	78,930.00	0
Unrefrigerated Warehouse-No Rail	20.53	1000sqft	0.47	20,530.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	434.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS in 2021

Land Use -

Construction Phase - Operational emissions only for the project.

Off-road Equipment - Project-specific data.

Grading - Project- specific data.

Trips and VMT - Project-specific data.

Architectural Coating - Project-specific data.

Vehicle Trips - Trip rates from project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,050.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	159,150.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	PhaseEndDate	1/11/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	12/14/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	2/10/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	12/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/11/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	12/15/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	1/1/2020
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	434.98
tblTripsAndVMT	VendorTripNumber	17.00	0.00
tblTripsAndVMT	WorkerTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblVehicleTrips	ST_TR	2.12	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	2.12	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	2.12	1.71
tblVehicleTrips	WD_TR	1.74	1.71
tblVehicleTrips	WD_TR	1.74	1.71

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Energy	0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059
Mobile	0.7013	0.9282	8.0414	0.0171	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,741.5573	1,741.5573	0.1099	0.0701	1,765.2009
Total	3.0842	1.0338	8.1409	0.0177	1.6370	0.0247	1.6617	0.4361	0.0236	0.4597		1,868.2338	1,868.2338	0.1123	0.0724	1,892.6315

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	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Energy	0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059
Mobile	0.7013	0.9282	8.0414	0.0171	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,741.5573	1,741.5573	0.1099	0.0701	1,765.2009
Total	3.0842	1.0338	8.1409	0.0177	1.6370	0.0247	1.6617	0.4361	0.0236	0.4597		1,868.2338	1,868.2338	0.1123	0.0724	1,892.6315

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

Building Construction	Generator Sets	0	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation		0			
Paving		0			

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7013	0.9282	8.0414	0.0171	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,741.5573	1,741.5573	0.1099	0.0701	1,765.2009
Unmitigated	0.7013	0.9282	8.0414	0.0171	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,741.5573	1,741.5573	0.1099	0.0701	1,765.2009

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-Rail	11.35	11.35	11.35	48,662	48,662
Unrefrigerated Warehouse-No Rail	35.11	35.11	35.11	150,456	150,456
Unrefrigerated Warehouse-Rail	134.97	134.97	134.97	578,444	578,444
Total	181.43	181.43	181.43	777,562	777,562

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
Refrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

Land Use	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
Unrefrigerated Warehouse-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
Refrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day											lb/day		Category		
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	Bio-CO2	NBio-CO2	Total CO2		CH4	N2O
Natural Gas Mitigated	0.0116	0.1055	0.0887	6.3000e-004	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059	127.4059
Natural Gas Unmitigated	0.0116	0.1055	0.0887	6.3000e-004	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059	127.4059

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-Rail	16.5545	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9476	1.9476	4.0000e-005	4.0000e-005	1.9592
Unrefrigerated Warehouse-No Rail	218.799	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7411	25.7411	4.9000e-004	4.7000e-004	25.8941
Unrefrigerated Warehouse-Rail	841.199	9.0700e-003	0.0825	0.0693	4.9000e-004		6.2700e-003	6.2700e-003		6.2700e-003	6.2700e-003		98.9646	98.9646	1.9000e-003	1.8100e-003	99.5527
Total		0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

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					
Refrigerated Warehouse-Rail	0.0165545	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9476	1.9476	4.0000e-005	4.0000e-005	1.9592
Unrefrigerated Warehouse-No Rail	0.218799	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7411	25.7411	4.9000e-004	4.7000e-004	25.8941
Unrefrigerated Warehouse-Rail	0.841199	9.0700e-003	0.0825	0.0693	4.9000e-004		6.2700e-003	6.2700e-003		6.2700e-003	6.2700e-003		98.9646	98.9646	1.9000e-003	1.8100e-003	99.5527
Total		0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059

6.0 Area Detail

6.1 Mitigation Measures Area

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Unmitigated	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

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	0.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Total	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Total	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

7.0 Water Detail

7.1 Mitigation Measures Water

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

**Saiko Normandie Apartments - Existing
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-Rail	6.64	1000sqft	0.15	6,640.00	0
Unrefrigerated Warehouse-Rail	78.93	1000sqft	1.81	78,930.00	0
Unrefrigerated Warehouse-No Rail	20.53	1000sqft	0.47	20,530.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	434.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS in 2021

Land Use -

Construction Phase - Operational emissions only for the project.

Off-road Equipment - Project-specific data.

Grading - Project- specific data.

Trips and VMT - Project-specific data.

Architectural Coating - Project-specific data.

Vehicle Trips - Trip rates from project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Off-road Equipment - Project-specific data.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	53,050.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	159,150.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	6.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblConstructionPhase	PhaseEndDate	1/11/2021	12/31/2019
tblConstructionPhase	PhaseEndDate	12/14/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	2/10/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	12/28/2020	12/31/2019
tblConstructionPhase	PhaseEndDate	1/31/2020	12/31/2019
tblConstructionPhase	PhaseStartDate	12/29/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/11/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	2/1/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	12/15/2020	1/1/2020
tblConstructionPhase	PhaseStartDate	1/29/2020	1/1/2020
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	434.98
tblTripsAndVMT	VendorTripNumber	17.00	0.00
tblTripsAndVMT	WorkerTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	45.00	0.00
tblVehicleTrips	ST_TR	2.12	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	2.12	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	2.12	1.71
tblVehicleTrips	WD_TR	1.74	1.71
tblVehicleTrips	WD_TR	1.74	1.71

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Energy	0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059
Mobile	0.6914	0.9986	7.7503	0.0164	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,665.9215	1,665.9215	0.1123	0.0733	1,690.5809
Total	3.0743	1.1043	7.8498	0.0170	1.6370	0.0247	1.6617	0.4361	0.0236	0.4597		1,792.5980	1,792.5980	0.1148	0.0757	1,818.0115

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	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Energy	0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059
Mobile	0.6914	0.9986	7.7503	0.0164	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,665.9215	1,665.9215	0.1123	0.0733	1,690.5809
Total	3.0743	1.1043	7.8498	0.0170	1.6370	0.0247	1.6617	0.4361	0.0236	0.4597		1,792.5980	1,792.5980	0.1148	0.0757	1,818.0115

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	12/31/2019	5	0	
2	Site Preparation	Site Preparation	1/1/2020	12/31/2019	5	0	
3	Grading	Grading	1/1/2020	12/31/2019	5	0	
4	Building Construction	Building Construction	1/1/2020	12/31/2019	5	0	
5	Paving	Paving	1/1/2020	12/31/2019	5	0	
6	Architectural Coating	Architectural Coating	1/1/2020	12/31/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	8.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	0	8.00	231	0.29
Building Construction	Forklifts	0	7.00	89	0.20

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

Building Construction	Generator Sets	0	8.00	84	0.74
Grading	Graders	0	8.00	187	0.41
Site Preparation	Graders	0	8.00	187	0.41
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Scrapers	0	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Site Preparation		0			
Paving		0			

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
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6914	0.9986	7.7503	0.0164	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,665.9215	1,665.9215	0.1123	0.0733	1,690.5809
Unmitigated	0.6914	0.9986	7.7503	0.0164	1.6370	0.0166	1.6536	0.4361	0.0156	0.4516		1,665.9215	1,665.9215	0.1123	0.0733	1,690.5809

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Refrigerated Warehouse-Rail	11.35	11.35	11.35	48,662	48,662
Unrefrigerated Warehouse-No Rail	35.11	35.11	35.11	150,456	150,456
Unrefrigerated Warehouse-Rail	134.97	134.97	134.97	578,444	578,444
Total	181.43	181.43	181.43	777,562	777,562

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
Refrigerated Warehouse-Rail	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

Land Use	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	
Unrefrigerated Warehouse-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
Refrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-No Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Unrefrigerated Warehouse-Rail	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	lb/day										lb/day					
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	Total PM10	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Natural Gas Mitigated	0.0116	0.1055	0.0887	6.3000e-004	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	126.6533	126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059
Natural Gas Unmitigated	0.0116	0.1055	0.0887	6.3000e-004	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	8.0200e-003	126.6533	126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Refrigerated Warehouse-Rail	16.5545	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9476	1.9476	4.0000e-005	4.0000e-005	1.9592
Unrefrigerated Warehouse-No Rail	218.799	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7411	25.7411	4.9000e-004	4.7000e-004	25.8941
Unrefrigerated Warehouse-Rail	841.199	9.0700e-003	0.0825	0.0693	4.9000e-004		6.2700e-003	6.2700e-003		6.2700e-003	6.2700e-003		98.9646	98.9646	1.9000e-003	1.8100e-003	99.5527
Total		0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

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					
Refrigerated Warehouse-Rail	0.0165545	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004		1.9476	1.9476	4.0000e-005	4.0000e-005	1.9592
Unrefrigerated Warehouse-No Rail	0.218799	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003		25.7411	25.7411	4.9000e-004	4.7000e-004	25.8941
Unrefrigerated Warehouse-Rail	0.841199	9.0700e-003	0.0825	0.0693	4.9000e-004		6.2700e-003	6.2700e-003		6.2700e-003	6.2700e-003		98.9646	98.9646	1.9000e-003	1.8100e-003	99.5527
Total		0.0116	0.1055	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6533	126.6533	2.4300e-003	2.3200e-003	127.4059

6.0 Area Detail

6.1 Mitigation Measures Area

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Unmitigated	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

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	0.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Total	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.0200e-003	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248
Total	2.3713	1.0000e-004	0.0109	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0232	0.0232	6.0000e-005		0.0248

7.0 Water Detail

7.1 Mitigation Measures Water

Saiko Normandie Apartments - Existing - Los Angeles-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

Normandie Crossing Specific Plan Project

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	328.00	Dwelling Unit	2.32	241,581.00	938
Condo/Townhouse	75.00	Dwelling Unit	2.93	115,982.00	215
Enclosed Parking with Elevator	559.00	Space	1.59	138,625.00	0
Recreational Swimming Pool	1.60	1000sqft	0.04	1,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	339.11	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - SCE RPS in 2027
- Land Use - Project-specific land use
- Construction Phase - construction schedule based on project-specific information
- Grading - soil export quantities based on project-specific data
- Demolition -
- Trips and VMT - construction trips based on project-specific information
- Vehicle Trips - Project-specific trip rates
- Woodstoves - no wood-burning fireplaces or woodstoves

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

Energy Use - No natural gas use for apartments, townhomes, or swimming pools; electricity use that accounts for the natural gas replacement in the residential dwelling units is included

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	230.00	236.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	10.00	26.00
tblConstructionPhase	NumDays	230.00	391.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	9/19/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	7/25/2025	9/1/2025
tblConstructionPhase	PhaseEndDate	7/26/2024	8/30/2024
tblConstructionPhase	PhaseEndDate	9/6/2024	11/29/2024
tblConstructionPhase	PhaseEndDate	8/22/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	8/9/2024	9/30/2024
tblConstructionPhase	PhaseStartDate	8/23/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	9/7/2024	11/30/2024
tblConstructionPhase	PhaseStartDate	8/10/2024	10/1/2024
tblConstructionPhase	PhaseStartDate	7/26/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	7/27/2024	8/31/2024
tblEnergyUse	LightingElect	741.44	1,233.99
tblEnergyUse	LightingElect	1,001.10	1,782.19
tblEnergyUse	NT24E	3,054.10	5,083.00
tblEnergyUse	NT24E	3,795.01	6,755.99
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

tblEnergyUse	T24E	38.29	63.73
tblEnergyUse	T24E	36.21	64.46
tblEnergyUse	T24NG	5,633.62	0.00
tblEnergyUse	T24NG	10,989.44	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	278.80	0.00
tblFireplaces	NumberGas	63.75	0.00
tblFireplaces	NumberNoFireplace	32.80	328.00
tblFireplaces	NumberNoFireplace	7.50	75.00
tblFireplaces	NumberWood	16.40	0.00
tblFireplaces	NumberWood	3.75	0.00
tblGrading	AcresOfGrading	52.00	20.00
tblGrading	AcresOfGrading	39.00	15.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	328,000.00	241,581.00
tblLandUse	LandUseSquareFeet	75,000.00	115,982.00
tblLandUse	LandUseSquareFeet	223,600.00	138,625.00
tblLandUse	LotAcreage	8.63	2.32
tblLandUse	LotAcreage	4.69	2.93
tblLandUse	LotAcreage	5.03	1.59
tblProjectCharacteristics	CO2IntensityFactor	390.98	339.11
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	66.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	66.00	20.00

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

tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	349.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	150.00
tblTripsAndVMT	WorkerTripNumber	70.00	150.00
tblTripsAndVMT	WorkerTripNumber	349.00	300.00
tblVehicleTrips	ST_TR	4.91	3.89
tblVehicleTrips	ST_TR	8.14	7.12
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	3.24
tblVehicleTrips	SU_TR	6.28	5.49
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	4.31
tblVehicleTrips	WD_TR	7.32	6.40
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1742	1.7147	1.5607	3.8300e-003	0.5417	0.0698	0.6115	0.2459	0.0647	0.3106	0.0000	345.8412	345.8412	0.0732	0.0124	351.3520
2025	0.3173	2.1089	3.6236	7.8500e-003	0.4131	0.0852	0.4983	0.1100	0.0801	0.1901	0.0000	698.4780	698.4780	0.0935	0.0125	704.5343
2026	0.4614	2.1266	3.8645	8.8200e-003	0.5342	0.0852	0.6194	0.1423	0.0800	0.2223	0.0000	788.9087	788.9087	0.0969	0.0165	796.2491
2027	1.2062	1.1571	2.5728	5.7200e-003	0.3584	0.0515	0.4099	0.0955	0.0478	0.1433	0.0000	515.6815	515.6815	0.0757	0.0107	520.7554
Maximum	1.2062	2.1266	3.8645	8.8200e-003	0.5417	0.0852	0.6194	0.2459	0.0801	0.3106	0.0000	788.9087	788.9087	0.0969	0.0165	796.2491

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

2.1 Overall Construction

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					
2024	0.0518	0.3393	1.7858	3.8300e-003	0.2847	6.1300e-003	0.2908	0.1217	6.0700e-003	0.1278	0.0000	345.8409	345.8409	0.0732	0.0124	351.3517
2025	0.1822	0.5601	3.8631	7.8500e-003	0.4131	0.0150	0.4281	0.1100	0.0148	0.1248	0.0000	698.4776	698.4776	0.0935	0.0125	704.5339
2026	0.3274	0.5974	4.1198	8.8200e-003	0.5342	0.0152	0.5494	0.1423	0.0149	0.1573	0.0000	788.9083	788.9083	0.0969	0.0165	796.2487
2027	1.1248	0.2769	2.8606	5.7200e-003	0.3584	6.4700e-003	0.3649	0.0955	6.3100e-003	0.1018	0.0000	515.6812	515.6812	0.0757	0.0107	520.7551
Maximum	1.1248	0.5974	4.1198	8.8200e-003	0.5342	0.0152	0.5494	0.1423	0.0149	0.1573	0.0000	788.9083	788.9083	0.0969	0.0165	796.2487

	ROG	NOx	CO	SO2	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	21.91	75.04	-8.67	0.00	13.91	85.34	23.65	20.92	84.56	40.94	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-30-2024	9-29-2024	1.0630	0.1624
2	9-30-2024	12-29-2024	0.8157	0.2216
3	12-30-2024	3-29-2025	0.5891	0.1731
4	3-30-2025	6-29-2025	0.5973	0.1730
5	6-30-2025	9-29-2025	0.6074	0.1831
6	9-30-2025	12-29-2025	0.6300	0.2104
7	12-30-2025	3-29-2026	0.6189	0.2039
8	3-30-2026	6-29-2026	0.6267	0.2024

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

9	6-30-2026	9-29-2026	0.6266	0.2023
10	9-30-2026	12-29-2026	0.7051	0.3046
11	12-30-2026	3-29-2027	0.8704	0.5171
12	3-30-2027	6-29-2027	0.8840	0.5229
13	6-30-2027	9-29-2027	0.6245	0.3693
		Highest	1.0630	0.5229

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	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	537.1613	537.1613	0.0523	6.3400e-003	540.3563
Mobile	0.8911	0.9674	9.0764	0.0202	2.3395	0.0143	2.3538	0.6242	0.0133	0.6375	0.0000	1,873.3969	1,873.3969	0.1294	0.0809	1,900.7314
Waste						0.0000	0.0000		0.0000	0.0000	39.4817	0.0000	39.4817	2.3333	0.0000	97.8144
Water						0.0000	0.0000		0.0000	0.0000	8.3602	81.1662	89.5264	0.8666	0.0212	117.5179
Total	2.4312	1.0153	13.2356	0.0205	2.3395	0.0374	2.3768	0.6242	0.0364	0.6606	47.8419	2,498.5270	2,546.3690	3.3881	0.1084	2,663.3860

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	537.1613	537.1613	0.0523	6.3400e-003	540.3563
Mobile	0.8911	0.9674	9.0764	0.0202	2.3395	0.0143	2.3538	0.6242	0.0133	0.6375	0.0000	1,873.3969	1,873.3969	0.1294	0.0809	1,900.7314
Waste						0.0000	0.0000		0.0000	0.0000	39.4817	0.0000	39.4817	2.3333	0.0000	97.8144
Water						0.0000	0.0000		0.0000	0.0000	8.3602	81.1662	89.5264	0.8666	0.0212	117.5179
Total	2.4312	1.0153	13.2356	0.0205	2.3395	0.0374	2.3768	0.6242	0.0364	0.6606	47.8419	2,498.5270	2,546.3690	3.3881	0.1084	2,663.3860

	ROG	NOx	CO	SO2	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	6/30/2024	8/30/2024	6	53	
2	Site Preparation	Site Preparation	8/31/2024	9/30/2024	6	26	
3	Site Grading/Excavation	Grading	10/1/2024	11/29/2024	6	52	

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

4	Twnhouse & Apartment Foundations and Garages	Building Construction	11/30/2024	9/1/2025	6	236
5	Paving	Paving	12/2/2026	9/2/2027	6	236
6	Architectural Coating	Architectural Coating	12/2/2026	9/2/2027	6	236
7	Twnhouse & Apartment Framing/Rough-In	Building Construction	9/2/2025	12/1/2026	6	391

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.59

Residential Indoor: 724,065; Residential Outdoor: 241,355; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,318 (Architectural Coating – sqft)

OffRoad Equipment

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

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

Twnhouse & Apartment Foundations and Garages	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Site Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Twnhouse & Apartment Foundations and Garages	Welders	1	8.00	46	0.45
Twnhouse & Apartment Framing/Rough-In	Cranes	1	7.00	231	0.29
Twnhouse & Apartment Framing/Rough-In	Forklifts	3	8.00	89	0.20
Twnhouse & Apartment Framing/Rough-In	Generator Sets	1	8.00	84	0.74
Twnhouse & Apartment Framing/Rough-In	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Twnhouse & Apartment Framing/Rough-In	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	30.00	20.00	525.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Grading/Excavation	6	30.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Twnhouse & Apartment Foundation	9	200.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	150.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Twnhouse & Apartment Framing/P	9	300.00	20.00	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

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3.2 Demolition - 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					0.0568	0.0000	0.0568	8.6000e-003	0.0000	8.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0595	0.5533	0.5222	1.0300e-003		0.0254	0.0254		0.0236	0.0236	0.0000	90.0895	90.0895	0.0252	0.0000	90.7197
Total	0.0595	0.5533	0.5222	1.0300e-003	0.0568	0.0254	0.0823	8.6000e-003	0.0236	0.0322	0.0000	90.0895	90.0895	0.0252	0.0000	90.7197

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	5.5000e-004	0.0362	9.3500e-003	1.5000e-004	4.5200e-003	2.2000e-004	4.7300e-003	1.2400e-003	2.1000e-004	1.4500e-003	0.0000	15.0941	15.0941	8.5000e-004	2.4000e-003	15.8299
Vendor	5.8000e-004	0.0214	7.8300e-003	1.0000e-004	3.3400e-003	1.0000e-004	3.4400e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	9.4920	9.4920	3.2000e-004	1.3700e-003	9.9076
Worker	2.3500e-003	1.7900e-003	0.0252	7.0000e-005	8.7100e-003	5.0000e-005	8.7600e-003	2.3100e-003	5.0000e-005	2.3600e-003	0.0000	6.7383	6.7383	1.7000e-004	1.7000e-004	6.7924
Total	3.4800e-003	0.0594	0.0424	3.2000e-004	0.0166	3.7000e-004	0.0169	4.5100e-003	3.6000e-004	4.8700e-003	0.0000	31.3244	31.3244	1.3400e-003	3.9400e-003	32.5299

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3.2 Demolition - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0256	0.0000	0.0256	3.8700e-003	0.0000	3.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0123	0.0531	0.6169	1.0300e-003		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003	0.0000	90.0894	90.0894	0.0252	0.0000	90.7196
Total	0.0123	0.0531	0.6169	1.0300e-003	0.0256	1.6300e-003	0.0272	3.8700e-003	1.6300e-003	5.5000e-003	0.0000	90.0894	90.0894	0.0252	0.0000	90.7196

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	5.5000e-004	0.0362	9.3500e-003	1.5000e-004	4.5200e-003	2.2000e-004	4.7300e-003	1.2400e-003	2.1000e-004	1.4500e-003	0.0000	15.0941	15.0941	8.5000e-004	2.4000e-003	15.8299
Vendor	5.8000e-004	0.0214	7.8300e-003	1.0000e-004	3.3400e-003	1.0000e-004	3.4400e-003	9.6000e-004	1.0000e-004	1.0600e-003	0.0000	9.4920	9.4920	3.2000e-004	1.3700e-003	9.9076
Worker	2.3500e-003	1.7900e-003	0.0252	7.0000e-005	8.7100e-003	5.0000e-005	8.7600e-003	2.3100e-003	5.0000e-005	2.3600e-003	0.0000	6.7383	6.7383	1.7000e-004	1.7000e-004	6.7924
Total	3.4800e-003	0.0594	0.0424	3.2000e-004	0.0166	3.7000e-004	0.0169	4.5100e-003	3.6000e-004	4.8700e-003	0.0000	31.3244	31.3244	1.3400e-003	3.9400e-003	32.5299

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3.3 Site Preparation - 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					0.2428	0.0000	0.2428	0.1300	0.0000	0.1300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.3533	0.2384	4.9000e-004		0.0160	0.0160		0.0147	0.0147	0.0000	43.4942	43.4942	0.0141	0.0000	43.8459
Total	0.0346	0.3533	0.2384	4.9000e-004	0.2428	0.0160	0.2588	0.1300	0.0147	0.1447	0.0000	43.4942	43.4942	0.0141	0.0000	43.8459

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	9.0000e-005	3.1500e-003	1.1500e-003	1.0000e-005	4.9000e-004	2.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.6000e-004	0.0000	1.3969	1.3969	5.0000e-005	2.0000e-004	1.4581
Worker	1.1500e-003	8.8000e-004	0.0124	4.0000e-005	4.2700e-003	3.0000e-005	4.3000e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3056	3.3056	8.0000e-005	8.0000e-005	3.3321
Total	1.2400e-003	4.0300e-003	0.0135	5.0000e-005	4.7600e-003	5.0000e-005	4.8100e-003	1.2800e-003	3.0000e-005	1.3200e-003	0.0000	4.7025	4.7025	1.3000e-004	2.8000e-004	4.7902

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3.3 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1093	0.0000	0.1093	0.0585	0.0000	0.0585	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0500e-003	0.0262	0.2713	4.9000e-004		8.1000e-004	8.1000e-004		8.1000e-004	8.1000e-004	0.0000	43.4941	43.4941	0.0141	0.0000	43.8458
Total	6.0500e-003	0.0262	0.2713	4.9000e-004	0.1093	8.1000e-004	0.1101	0.0585	8.1000e-004	0.0593	0.0000	43.4941	43.4941	0.0141	0.0000	43.8458

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	9.0000e-005	3.1500e-003	1.1500e-003	1.0000e-005	4.9000e-004	2.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.6000e-004	0.0000	1.3969	1.3969	5.0000e-005	2.0000e-004	1.4581
Worker	1.1500e-003	8.8000e-004	0.0124	4.0000e-005	4.2700e-003	3.0000e-005	4.3000e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3056	3.3056	8.0000e-005	8.0000e-005	3.3321
Total	1.2400e-003	4.0300e-003	0.0135	5.0000e-005	4.7600e-003	5.0000e-005	4.8100e-003	1.2800e-003	3.0000e-005	1.3200e-003	0.0000	4.7025	4.7025	1.3000e-004	2.8000e-004	4.7902

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3.4 Site Grading/Excavation - 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					0.1677	0.0000	0.1677	0.0873	0.0000	0.0873	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.4428	0.3837	7.7000e-004		0.0188	0.0188		0.0173	0.0173	0.0000	67.7662	67.7662	0.0219	0.0000	68.3141
Total	0.0432	0.4428	0.3837	7.7000e-004	0.1677	0.0188	0.1866	0.0873	0.0173	0.1046	0.0000	67.7662	67.7662	0.0219	0.0000	68.3141

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0862	0.0223	3.6000e-004	0.0108	5.2000e-004	0.0113	2.9500e-003	5.0000e-004	3.4500e-003	0.0000	35.9383	35.9383	2.0200e-003	5.7100e-003	37.6903
Vendor	5.7000e-004	0.0210	7.6800e-003	1.0000e-004	3.2800e-003	1.0000e-004	3.3800e-003	9.5000e-004	1.0000e-004	1.0400e-003	0.0000	9.3129	9.3129	3.2000e-004	1.3400e-003	9.7206
Worker	2.3100e-003	1.7500e-003	0.0247	7.0000e-005	8.5500e-003	5.0000e-005	8.6000e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.6111	6.6111	1.6000e-004	1.6000e-004	6.6643
Total	4.1900e-003	0.1089	0.0547	5.3000e-004	0.0226	6.7000e-004	0.0233	6.1700e-003	6.5000e-004	6.8100e-003	0.0000	51.8624	51.8624	2.5000e-003	7.2100e-003	54.0752

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3.4 Site Grading/Excavation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0755	0.0000	0.0755	0.0393	0.0000	0.0393	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4400e-003	0.0409	0.4616	7.7000e-004		1.2600e-003	1.2600e-003		1.2600e-003	1.2600e-003	0.0000	67.7661	67.7661	0.0219	0.0000	68.3140
Total	9.4400e-003	0.0409	0.4616	7.7000e-004	0.0755	1.2600e-003	0.0768	0.0393	1.2600e-003	0.0405	0.0000	67.7661	67.7661	0.0219	0.0000	68.3140

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3100e-003	0.0862	0.0223	3.6000e-004	0.0108	5.2000e-004	0.0113	2.9500e-003	5.0000e-004	3.4500e-003	0.0000	35.9383	35.9383	2.0200e-003	5.7100e-003	37.6903
Vendor	5.7000e-004	0.0210	7.6800e-003	1.0000e-004	3.2800e-003	1.0000e-004	3.3800e-003	9.5000e-004	1.0000e-004	1.0400e-003	0.0000	9.3129	9.3129	3.2000e-004	1.3400e-003	9.7206
Worker	2.3100e-003	1.7500e-003	0.0247	7.0000e-005	8.5500e-003	5.0000e-005	8.6000e-003	2.2700e-003	5.0000e-005	2.3200e-003	0.0000	6.6111	6.6111	1.6000e-004	1.6000e-004	6.6643
Total	4.1900e-003	0.1089	0.0547	5.3000e-004	0.0226	6.7000e-004	0.0233	6.1700e-003	6.5000e-004	6.8100e-003	0.0000	51.8624	51.8624	2.5000e-003	7.2100e-003	54.0752

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3.5 Twnhouse & Apartment Foundations and Garages - 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	0.0199	0.1815	0.2183	3.6000e-004		8.2800e-003	8.2800e-003		7.7900e-003	7.7900e-003	0.0000	31.2996	31.2996	7.4000e-003	0.0000	31.4847
Total	0.0199	0.1815	0.2183	3.6000e-004		8.2800e-003	8.2800e-003		7.7900e-003	7.7900e-003	0.0000	31.2996	31.2996	7.4000e-003	0.0000	31.4847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	5.4500e-003	1.9900e-003	2.0000e-005	8.5000e-004	3.0000e-005	8.8000e-004	2.5000e-004	3.0000e-005	2.7000e-004	0.0000	2.4178	2.4178	8.0000e-005	3.5000e-004	2.5236
Worker	7.9900e-003	6.0700e-003	0.0855	2.5000e-004	0.0296	1.7000e-004	0.0298	7.8600e-003	1.6000e-004	8.0200e-003	0.0000	22.8847	22.8847	5.7000e-004	5.7000e-004	23.0687
Total	8.1400e-003	0.0115	0.0875	2.7000e-004	0.0304	2.0000e-004	0.0306	8.1100e-003	1.9000e-004	8.2900e-003	0.0000	25.3025	25.3025	6.5000e-004	9.2000e-004	25.5923

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3.5 Twnhouse & Apartment Foundations and Garages - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0353	0.2380	3.6000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	31.2996	31.2996	7.4000e-003	0.0000	31.4846
Total	7.0200e-003	0.0353	0.2380	3.6000e-004		1.1500e-003	1.1500e-003		1.1500e-003	1.1500e-003	0.0000	31.2996	31.2996	7.4000e-003	0.0000	31.4846

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-004	5.4500e-003	1.9900e-003	2.0000e-005	8.5000e-004	3.0000e-005	8.8000e-004	2.5000e-004	3.0000e-005	2.7000e-004	0.0000	2.4178	2.4178	8.0000e-005	3.5000e-004	2.5236
Worker	7.9900e-003	6.0700e-003	0.0855	2.5000e-004	0.0296	1.7000e-004	0.0298	7.8600e-003	1.6000e-004	8.0200e-003	0.0000	22.8847	22.8847	5.7000e-004	5.7000e-004	23.0687
Total	8.1400e-003	0.0115	0.0875	2.7000e-004	0.0304	2.0000e-004	0.0306	8.1100e-003	1.9000e-004	8.2900e-003	0.0000	25.3025	25.3025	6.5000e-004	9.2000e-004	25.5923

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801
Total	0.1429	1.3031	1.6809	2.8200e-003		0.0551	0.0551		0.0519	0.0519	0.0000	242.3558	242.3558	0.0570	0.0000	243.7801

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0420	0.0152	1.9000e-004	6.5900e-003	2.0000e-004	6.7900e-003	1.9000e-003	2.0000e-004	2.1000e-003	0.0000	18.3786	18.3786	6.4000e-004	2.6500e-003	19.1842
Worker	0.0579	0.0422	0.6162	1.8700e-003	0.2290	1.2800e-003	0.2303	0.0608	1.1800e-003	0.0620	0.0000	171.1250	171.1250	3.9600e-003	4.1200e-003	172.4513
Total	0.0590	0.0842	0.6313	2.0600e-003	0.2356	1.4800e-003	0.2371	0.0627	1.3800e-003	0.0641	0.0000	189.5037	189.5037	4.6000e-003	6.7700e-003	191.6354

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0527	0.2689	1.8408	2.8200e-003		8.2300e-003	8.2300e-003		8.2300e-003	8.2300e-003	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798
Total	0.0527	0.2689	1.8408	2.8200e-003		8.2300e-003	8.2300e-003		8.2300e-003	8.2300e-003	0.0000	242.3555	242.3555	0.0570	0.0000	243.7798

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0420	0.0152	1.9000e-004	6.5900e-003	2.0000e-004	6.7900e-003	1.9000e-003	2.0000e-004	2.1000e-003	0.0000	18.3786	18.3786	6.4000e-004	2.6500e-003	19.1842
Worker	0.0579	0.0422	0.6162	1.8700e-003	0.2290	1.2800e-003	0.2303	0.0608	1.1800e-003	0.0620	0.0000	171.1250	171.1250	3.9600e-003	4.1200e-003	172.4513
Total	0.0590	0.0842	0.6313	2.0600e-003	0.2356	1.4800e-003	0.2371	0.0627	1.3800e-003	0.0641	0.0000	189.5037	189.5037	4.6000e-003	6.7700e-003	191.6354

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

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.1116	0.1895	3.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	26.0250	26.0250	8.4200e-003	0.0000	26.2355
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0119	0.1116	0.1895	3.0000e-004		5.4400e-003	5.4400e-003		5.0100e-003	5.0100e-003	0.0000	26.0250	26.0250	8.4200e-003	0.0000	26.2355

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	5.1900e-003	1.8600e-003	2.0000e-005	8.2000e-004	3.0000e-005	8.4000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	2.2439	2.2439	8.0000e-005	3.2000e-004	2.3424
Worker	5.0900e-003	3.5700e-003	0.0539	1.7000e-004	0.0214	1.1000e-004	0.0215	5.6800e-003	1.0000e-004	5.7800e-003	0.0000	15.4809	15.4809	3.4000e-004	3.6000e-004	15.5972
Total	5.2200e-003	8.7600e-003	0.0558	1.9000e-004	0.0222	1.4000e-004	0.0223	5.9200e-003	1.2000e-004	6.0400e-003	0.0000	17.7249	17.7249	4.2000e-004	6.8000e-004	17.9396

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

3.6 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6500e-003	0.0158	0.2248	3.0000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	26.0250	26.0250	8.4200e-003	0.0000	26.2354
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.6500e-003	0.0158	0.2248	3.0000e-004		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	26.0250	26.0250	8.4200e-003	0.0000	26.2354

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	5.1900e-003	1.8600e-003	2.0000e-005	8.2000e-004	3.0000e-005	8.4000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	2.2439	2.2439	8.0000e-005	3.2000e-004	2.3424
Worker	5.0900e-003	3.5700e-003	0.0539	1.7000e-004	0.0214	1.1000e-004	0.0215	5.6800e-003	1.0000e-004	5.7800e-003	0.0000	15.4809	15.4809	3.4000e-004	3.6000e-004	15.5972
Total	5.2200e-003	8.7600e-003	0.0558	1.9000e-004	0.0222	1.4000e-004	0.0223	5.9200e-003	1.2000e-004	6.0400e-003	0.0000	17.7249	17.7249	4.2000e-004	6.8000e-004	17.9396

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

3.6 Paving - 2027

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	0.0961	0.9011	1.5307	2.3900e-003		0.0439	0.0439		0.0404	0.0404	0.0000	210.2022	210.2022	0.0680	0.0000	211.9018
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0961	0.9011	1.5307	2.3900e-003		0.0439	0.0439		0.0404	0.0404	0.0000	210.2022	210.2022	0.0680	0.0000	211.9018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0416	0.0148	1.8000e-004	6.6200e-003	2.0000e-004	6.8200e-003	1.9100e-003	1.9000e-004	2.1000e-003	0.0000	17.7676	17.7676	6.5000e-004	2.5600e-003	18.5480
Worker	0.0388	0.0263	0.4112	1.3300e-003	0.1726	8.6000e-004	0.1735	0.0458	7.9000e-004	0.0466	0.0000	121.5675	121.5675	2.4800e-003	2.7700e-003	122.4560
Total	0.0398	0.0679	0.4261	1.5100e-003	0.1792	1.0600e-003	0.1803	0.0478	9.8000e-004	0.0487	0.0000	139.3351	139.3351	3.1300e-003	5.3300e-003	141.0040

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

3.6 Paving - 2027

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	0.0295	0.1276	1.8160	2.3900e-003		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	210.2019	210.2019	0.0680	0.0000	211.9015
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0295	0.1276	1.8160	2.3900e-003		3.9300e-003	3.9300e-003		3.9300e-003	3.9300e-003	0.0000	210.2019	210.2019	0.0680	0.0000	211.9015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0416	0.0148	1.8000e-004	6.6200e-003	2.0000e-004	6.8200e-003	1.9100e-003	1.9000e-004	2.1000e-003	0.0000	17.7676	17.7676	6.5000e-004	2.5600e-003	18.5480
Worker	0.0388	0.0263	0.4112	1.3300e-003	0.1726	8.6000e-004	0.1735	0.0458	7.9000e-004	0.0466	0.0000	121.5675	121.5675	2.4800e-003	2.7700e-003	122.4560
Total	0.0398	0.0679	0.4261	1.5100e-003	0.1792	1.0600e-003	0.1803	0.0478	9.8000e-004	0.0487	0.0000	139.3351	139.3351	3.1300e-003	5.3300e-003	141.0040

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

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2200e-003	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	0.1276	0.0149	0.0235	4.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	5.1900e-003	1.8600e-003	2.0000e-005	8.2000e-004	3.0000e-005	8.4000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	2.2439	2.2439	8.0000e-005	3.2000e-004	2.3424
Worker	5.0900e-003	3.5700e-003	0.0539	1.7000e-004	0.0214	1.1000e-004	0.0215	5.6800e-003	1.0000e-004	5.7800e-003	0.0000	15.4809	15.4809	3.4000e-004	3.6000e-004	15.5972
Total	5.2200e-003	8.7600e-003	0.0558	1.9000e-004	0.0222	1.4000e-004	0.0223	5.9200e-003	1.2000e-004	6.0400e-003	0.0000	17.7249	17.7249	4.2000e-004	6.8000e-004	17.9396

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

3.7 Architectural Coating - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-004	1.6700e-003	0.0238	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238
Total	0.1258	1.6700e-003	0.0238	4.0000e-005		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	3.3192	3.3192	1.8000e-004	0.0000	3.3238

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3000e-004	5.1900e-003	1.8600e-003	2.0000e-005	8.2000e-004	3.0000e-005	8.4000e-004	2.4000e-004	2.0000e-005	2.6000e-004	0.0000	2.2439	2.2439	8.0000e-005	3.2000e-004	2.3424
Worker	5.0900e-003	3.5700e-003	0.0539	1.7000e-004	0.0214	1.1000e-004	0.0215	5.6800e-003	1.0000e-004	5.7800e-003	0.0000	15.4809	15.4809	3.4000e-004	3.6000e-004	15.5972
Total	5.2200e-003	8.7600e-003	0.0558	1.9000e-004	0.0222	1.4000e-004	0.0223	5.9200e-003	1.2000e-004	6.0400e-003	0.0000	17.7249	17.7249	4.2000e-004	6.8000e-004	17.9396

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3.7 Architectural Coating - 2027

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	1.0126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0179	0.1203	0.1900	3.1000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	26.8092	26.8092	1.4600e-003	0.0000	26.8457
Total	1.0305	0.1203	0.1900	3.1000e-004		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	26.8092	26.8092	1.4600e-003	0.0000	26.8457

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0416	0.0148	1.8000e-004	6.6200e-003	2.0000e-004	6.8200e-003	1.9100e-003	1.9000e-004	2.1000e-003	0.0000	17.7676	17.7676	6.5000e-004	2.5600e-003	18.5480
Worker	0.0388	0.0263	0.4112	1.3300e-003	0.1726	8.6000e-004	0.1735	0.0458	7.9000e-004	0.0466	0.0000	121.5675	121.5675	2.4800e-003	2.7700e-003	122.4560
Total	0.0398	0.0679	0.4261	1.5100e-003	0.1792	1.0600e-003	0.1803	0.0478	9.8000e-004	0.0487	0.0000	139.3351	139.3351	3.1300e-003	5.3300e-003	141.0040

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3.7 Architectural Coating - 2027

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	1.0126					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0135	0.1924	3.1000e-004		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	26.8091	26.8091	1.4600e-003	0.0000	26.8457
Total	1.0157	0.0135	0.1924	3.1000e-004		4.2000e-004	4.2000e-004		4.2000e-004	4.2000e-004	0.0000	26.8091	26.8091	1.4600e-003	0.0000	26.8457

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0600e-003	0.0416	0.0148	1.8000e-004	6.6200e-003	2.0000e-004	6.8200e-003	1.9100e-003	1.9000e-004	2.1000e-003	0.0000	17.7676	17.7676	6.5000e-004	2.5600e-003	18.5480
Worker	0.0388	0.0263	0.4112	1.3300e-003	0.1726	8.6000e-004	0.1735	0.0458	7.9000e-004	0.0466	0.0000	121.5675	121.5675	2.4800e-003	2.7700e-003	122.4560
Total	0.0398	0.0679	0.4261	1.5100e-003	0.1792	1.0600e-003	0.1803	0.0478	9.8000e-004	0.0487	0.0000	139.3351	139.3351	3.1300e-003	5.3300e-003	141.0040

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0711	0.6484	0.8364	1.4000e-003		0.0274	0.0274		0.0258	0.0258	0.0000	120.5981	120.5981	0.0284	0.0000	121.3068
Total	0.0711	0.6484	0.8364	1.4000e-003		0.0274	0.0274		0.0258	0.0258	0.0000	120.5981	120.5981	0.0284	0.0000	121.3068

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0418	0.0151	1.9000e-004	6.5500e-003	2.0000e-004	6.7600e-003	1.8900e-003	1.9000e-004	2.0900e-003	0.0000	18.2907	18.2907	6.4000e-004	2.6400e-003	19.0924
Worker	0.0432	0.0315	0.4599	1.3900e-003	0.1709	9.6000e-004	0.1719	0.0454	8.8000e-004	0.0463	0.0000	127.7297	127.7297	2.9600e-003	3.0700e-003	128.7196
Total	0.0443	0.0733	0.4750	1.5800e-003	0.1775	1.1600e-003	0.1787	0.0473	1.0700e-003	0.0484	0.0000	146.0204	146.0204	3.6000e-003	5.7100e-003	147.8120

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0262	0.1338	0.9160	1.4000e-003		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	120.5980	120.5980	0.0284	0.0000	121.3067
Total	0.0262	0.1338	0.9160	1.4000e-003		4.1000e-003	4.1000e-003		4.1000e-003	4.1000e-003	0.0000	120.5980	120.5980	0.0284	0.0000	121.3067

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1100e-003	0.0418	0.0151	1.9000e-004	6.5500e-003	2.0000e-004	6.7600e-003	1.8900e-003	1.9000e-004	2.0900e-003	0.0000	18.2907	18.2907	6.4000e-004	2.6400e-003	19.0924
Worker	0.0432	0.0315	0.4599	1.3900e-003	0.1709	9.6000e-004	0.1719	0.0454	8.8000e-004	0.0463	0.0000	127.7297	127.7297	2.9600e-003	3.0700e-003	128.7196
Total	0.0443	0.0733	0.4750	1.5800e-003	0.1775	1.1600e-003	0.1787	0.0473	1.0700e-003	0.0484	0.0000	146.0204	146.0204	3.6000e-003	5.7100e-003	147.8120

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.7894	2.3082	3.8700e-003		0.0757	0.0757		0.0712	0.0712	0.0000	332.8044	332.8044	0.0782	0.0000	334.7602
Total	0.1962	1.7894	2.3082	3.8700e-003		0.0757	0.0757		0.0712	0.0712	0.0000	332.8044	332.8044	0.0782	0.0000	334.7602

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9700e-003	0.1145	0.0410	5.1000e-004	0.0181	5.6000e-004	0.0187	5.2200e-003	5.3000e-004	5.7600e-003	0.0000	49.5391	49.5391	1.7700e-003	7.1400e-003	51.7125
Worker	0.1123	0.0788	1.1907	3.7300e-003	0.4717	2.5000e-003	0.4742	0.1253	2.3000e-003	0.1276	0.0000	341.7713	341.7713	7.4200e-003	7.9900e-003	344.3381
Total	0.1152	0.1933	1.2318	4.2400e-003	0.4898	3.0600e-003	0.4929	0.1305	2.8300e-003	0.1334	0.0000	391.3103	391.3103	9.1900e-003	0.0151	396.0506

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0723	0.3692	2.5278	3.8700e-003		0.0113	0.0113		0.0113	0.0113	0.0000	332.8040	332.8040	0.0782	0.0000	334.7598
Total	0.0723	0.3692	2.5278	3.8700e-003		0.0113	0.0113		0.0113	0.0113	0.0000	332.8040	332.8040	0.0782	0.0000	334.7598

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9700e-003	0.1145	0.0410	5.1000e-004	0.0181	5.6000e-004	0.0187	5.2200e-003	5.3000e-004	5.7600e-003	0.0000	49.5391	49.5391	1.7700e-003	7.1400e-003	51.7125
Worker	0.1123	0.0788	1.1907	3.7300e-003	0.4717	2.5000e-003	0.4742	0.1253	2.3000e-003	0.1276	0.0000	341.7713	341.7713	7.4200e-003	7.9900e-003	344.3381
Total	0.1152	0.1933	1.2318	4.2400e-003	0.4898	3.0600e-003	0.4929	0.1305	2.8300e-003	0.1334	0.0000	391.3103	391.3103	9.1900e-003	0.0151	396.0506

4.0 Operational Detail - Mobile

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8911	0.9674	9.0764	0.0202	2.3395	0.0143	2.3538	0.6242	0.0133	0.6375	0.0000	1,873.3969	1,873.3969	0.1294	0.0809	1,900.7314
Unmitigated	0.8911	0.9674	9.0764	0.0202	2.3395	0.0143	2.3538	0.6242	0.0133	0.6375	0.0000	1,873.3969	1,873.3969	0.1294	0.0809	1,900.7314

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,413.68	1,275.92	1062.72	4,592,184	4,592,184
Condo/Townhouse	480.00	534.00	411.75	1,633,277	1,633,277
Enclosed Parking with Elevator	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,893.68	1,809.92	1,474.47	6,225,460	6,225,460

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.09288e+006	321.9214	0.0313	3.8000e-003	323.8362
Condo/Townhouse	645198	99.2429	9.6600e-003	1.1700e-003	99.8332
Enclosed Parking with Elevator	754120	115.9970	0.0113	1.3700e-003	116.6870
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		537.1613	0.0523	6.3400e-003	540.3563

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.09288e+006	321.9214	0.0313	3.8000e-003	323.8362
Condo/Townhouse	645198	99.2429	9.6600e-003	1.1700e-003	99.8332
Enclosed Parking with Elevator	754120	115.9970	0.0113	1.3700e-003	116.6870
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		537.1613	0.0523	6.3400e-003	540.3563

6.0 Area Detail

6.1 Mitigation Measures Area

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661
Unmitigated	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661

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	0.1138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1253	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661
Total	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1138					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.3010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1253	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661
Total	1.5401	0.0479	4.1592	2.2000e-004		0.0231	0.0231		0.0231	0.0231	0.0000	6.8027	6.8027	6.5400e-003	0.0000	6.9661

7.0 Water Detail

7.1 Mitigation Measures Water

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	89.5264	0.8666	0.0212	117.5179
Unmitigated	89.5264	0.8666	0.0212	117.5179

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.3705 / 13.4727	72.6058	0.7028	0.0172	95.3062
Condo/Townhouse	4.88655 / 3.08065	16.6019	0.1607	3.9400e-003	21.7926
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.094629 / 0.0579984	0.3187	3.1100e-003	8.0000e-005	0.4192
Total		89.5264	0.8666	0.0212	117.5179

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.3705 / 13.4727	72.6058	0.7028	0.0172	95.3062
Condo/Townhouse	4.88655 / 3.08065	16.6019	0.1607	3.9400e-003	21.7926
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.094629 / 0.0579984	0.3187	3.1100e-003	8.0000e-005	0.4192
Total		89.5264	0.8666	0.0212	117.5179

8.0 Waste Detail

8.1 Mitigation Measures Waste

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	39.4817	2.3333	0.0000	97.8144
Unmitigated	39.4817	2.3333	0.0000	97.8144

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	150.88	30.6273	1.8100	0.0000	75.8778
Condo/Townhouse	34.5	7.0032	0.4139	0.0000	17.3501
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9.12	1.8513	0.1094	0.0000	4.5865
Total		39.4818	2.3333	0.0000	97.8143

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	150.88	30.6273	1.8100	0.0000	75.8778
Condo/Townhouse	34.5	7.0032	0.4139	0.0000	17.3501
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	9.12	1.8513	0.1094	0.0000	4.5865
Total		39.4818	2.3333	0.0000	97.8143

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Annual

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

Equipment Type	Number
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11.0 Vegetation

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

**Normandie Crossing Specific Plan Project
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	328.00	Dwelling Unit	2.32	241,581.00	938
Condo/Townhouse	75.00	Dwelling Unit	2.93	115,982.00	215
Enclosed Parking with Elevator	559.00	Space	1.59	138,625.00	0
Recreational Swimming Pool	1.60	1000sqft	0.04	1,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	339.11	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - SCE RPS in 2027
- Land Use - Project-specific land use
- Construction Phase - construction schedule based on project-specific information
- Grading - soil export quantities based on project-specific data
- Demolition -
- Trips and VMT - construction trips based on project-specific information
- Vehicle Trips - Project-specific trip rates
- Woodstoves - no wood-burning fireplaces or woodstoves

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

Energy Use - No natural gas use for apartments, townhomes, or swimming pools; electricity use that accounts for the natural gas replacement in the residential dwelling units is included

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	230.00	236.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	10.00	26.00
tblConstructionPhase	NumDays	230.00	391.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	9/19/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	7/25/2025	9/1/2025
tblConstructionPhase	PhaseEndDate	7/26/2024	8/30/2024
tblConstructionPhase	PhaseEndDate	9/6/2024	11/29/2024
tblConstructionPhase	PhaseEndDate	8/22/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	8/9/2024	9/30/2024
tblConstructionPhase	PhaseStartDate	8/23/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	9/7/2024	11/30/2024
tblConstructionPhase	PhaseStartDate	8/10/2024	10/1/2024
tblConstructionPhase	PhaseStartDate	7/26/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	7/27/2024	8/31/2024
tblEnergyUse	LightingElect	741.44	1,233.99
tblEnergyUse	LightingElect	1,001.10	1,782.19
tblEnergyUse	NT24E	3,054.10	5,083.00
tblEnergyUse	NT24E	3,795.01	6,755.99
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

tblEnergyUse	T24E	38.29	63.73
tblEnergyUse	T24E	36.21	64.46
tblEnergyUse	T24NG	5,633.62	0.00
tblEnergyUse	T24NG	10,989.44	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	278.80	0.00
tblFireplaces	NumberGas	63.75	0.00
tblFireplaces	NumberNoFireplace	32.80	328.00
tblFireplaces	NumberNoFireplace	7.50	75.00
tblFireplaces	NumberWood	16.40	0.00
tblFireplaces	NumberWood	3.75	0.00
tblGrading	AcresOfGrading	52.00	20.00
tblGrading	AcresOfGrading	39.00	15.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	328,000.00	241,581.00
tblLandUse	LandUseSquareFeet	75,000.00	115,982.00
tblLandUse	LandUseSquareFeet	223,600.00	138,625.00
tblLandUse	LotAcreage	8.63	2.32
tblLandUse	LotAcreage	4.69	2.93
tblLandUse	LotAcreage	5.03	1.59
tblProjectCharacteristics	CO2IntensityFactor	390.98	339.11
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	66.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	66.00	20.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	349.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	150.00
tblTripsAndVMT	WorkerTripNumber	70.00	150.00
tblTripsAndVMT	WorkerTripNumber	349.00	300.00
tblVehicleTrips	ST_TR	4.91	3.89
tblVehicleTrips	ST_TR	8.14	7.12
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	3.24
tblVehicleTrips	SU_TR	6.28	5.49
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	4.31
tblVehicleTrips	WD_TR	7.32	6.40
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7571	27.4665	23.0288	0.0511	19.0519	1.2325	20.2843	10.0968	1.1339	11.2306	0.0000	5,082.1017	5,082.1017	1.2037	0.3052	5,198.9257
2025	2.2252	13.7717	25.7403	0.0584	3.4814	0.5498	4.0312	0.9262	0.5169	1.4431	0.0000	5,759.8023	5,759.8023	0.6762	0.1159	5,811.2590
2026	11.5370	13.7165	25.4552	0.0575	3.4814	0.5489	4.0303	0.9262	0.5160	1.4422	0.0000	5,666.8451	5,666.8451	0.7987	0.1115	5,716.8305
2027	11.4912	10.9264	24.9564	0.0555	3.4814	0.4903	3.9717	0.9262	0.4553	1.3815	0.0000	5,515.1757	5,515.1757	0.7939	0.1075	5,567.0716
Maximum	11.5370	27.4665	25.7403	0.0584	19.0519	1.2325	20.2843	10.0968	1.1339	11.2306	0.0000	5,759.8023	5,759.8023	1.2037	0.3052	5,811.2590

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
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	5.4156	5.1977	53.8224	0.1228	14.0153	0.0841	14.0995	3.7337	0.0781	3.8119		12,525.6128	12,525.6128	0.8202	0.4997	12,695.0320
Total	14.1705	5.5808	87.0960	0.1245	14.0153	0.2687	14.2840	3.7337	0.2627	3.9964	0.0000	12,585.6021	12,585.6021	0.8779	0.4997	12,756.4625

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	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
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	5.4156	5.1977	53.8224	0.1228	14.0153	0.0841	14.0995	3.7337	0.0781	3.8119		12,525.6128	12,525.6128	0.8202	0.4997	12,695.0320
Total	14.1705	5.5808	87.0960	0.1245	14.0153	0.2687	14.2840	3.7337	0.2627	3.9964	0.0000	12,585.6021	12,585.6021	0.8779	0.4997	12,756.4625

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/30/2024	8/30/2024	6	53	
2	Site Preparation	Site Preparation	8/31/2024	9/30/2024	6	26	
3	Site Grading/Excavation	Grading	10/1/2024	11/29/2024	6	52	
4	Twnhouse & Apartment Foundations and Garages	Building Construction	11/30/2024	9/1/2025	6	236	
5	Paving	Paving	12/2/2026	9/2/2027	6	236	
6	Architectural Coating	Architectural Coating	12/2/2026	9/2/2027	6	236	
7	Twnhouse & Apartment Framing/Rough-In	Building Construction	9/2/2025	12/1/2026	6	391	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.59

Residential Indoor: 724,065; Residential Outdoor: 241,355; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,318 (Architectural Coating – sqft)

OffRoad Equipment

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

Site Grading/Excavation	Excavators	1	8.00	158	0.38
Twnhouse & Apartment Foundations and Garages	Forklifts	3	8.00	89	0.20
Twnhouse & Apartment Foundations and Garages	Generator Sets	1	8.00	84	0.74
Site Grading/Excavation	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Twnhouse & Apartment Foundations and Garages	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Site Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Twnhouse & Apartment Foundations and Garages	Welders	1	8.00	46	0.45
Twnhouse & Apartment Framing/Rough-In	Cranes	1	7.00	231	0.29
Twnhouse & Apartment Framing/Rough-In	Forklifts	3	8.00	89	0.20
Twnhouse & Apartment Framing/Rough-In	Generator Sets	1	8.00	84	0.74
Twnhouse & Apartment Framing/Rough-In	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Twnhouse & Apartment Framing/Rough-In	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	30.00	20.00	525.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Grading/Excavation	6	30.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

Twnhouse & Apartment Foundation Paving	9	200.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Twnhouse & Apartment Framing/R	9	300.00	20.00	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 - 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					2.1437	0.0000	2.1437	0.3246	0.0000	0.3246			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	2.2437	20.8781	19.7073	0.0388	2.1437	0.9602	3.1039	0.3246	0.8922	1.2168		3,747.4228	3,747.4228	1.0485		3,773.6345

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0213	1.2959	0.3511	5.7000e-003	0.1734	8.2200e-003	0.1816	0.0475	7.8600e-003	0.0554		627.5825	627.5825	0.0354	0.0997	658.1771
Vendor	0.0223	0.7692	0.2911	3.6600e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		394.5492	394.5492	0.0135	0.0568	411.8080
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.1331	2.1249	1.6496	0.0122	0.6368	0.0140	0.6509	0.1734	0.0134	0.1867		1,313.6507	1,313.6507	0.0557	0.1629	1,363.5940

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					0.9647	0.0000	0.9647	0.1461	0.0000	0.1461			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	0.4623	2.0032	23.2798	0.0388	0.9647	0.0616	1.0263	0.1461	0.0616	0.2077	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0213	1.2959	0.3511	5.7000e-003	0.1734	8.2200e-003	0.1816	0.0475	7.8600e-003	0.0554		627.5825	627.5825	0.0354	0.0997	658.1771
Vendor	0.0223	0.7692	0.2911	3.6600e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		394.5492	394.5492	0.0135	0.0568	411.8080
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.1331	2.1249	1.6496	0.0122	0.6368	0.0140	0.6509	0.1734	0.0134	0.1867		1,313.6507	1,313.6507	0.0557	0.1629	1,363.5940

3.3 Site Preparation - 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					18.6781	0.0000	18.6781	9.9968	0.0000	9.9968			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	18.6781	1.2294	19.9074	9.9968	1.1310	11.1278		3,688.0100	3,688.0100	1.1928		3,717.8294

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.2308	0.0873	1.1000e-003	0.0384	1.1700e-003	0.0396	0.0111	1.1100e-003	0.0122		118.3648	118.3648	4.0400e-003	0.0170	123.5424
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.0962	0.2905	1.0948	3.9800e-003	0.3738	3.1000e-003	0.3769	0.1000	2.8900e-003	0.1029		409.8838	409.8838	0.0109	0.0235	417.1513

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					8.4051	0.0000	8.4051	4.4985	0.0000	4.4985			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	0.4656	2.0175	20.8690	0.0381	8.4051	0.0621	8.4672	4.4985	0.0621	4.5606	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7000e-003	0.2308	0.0873	1.1000e-003	0.0384	1.1700e-003	0.0396	0.0111	1.1100e-003	0.0122		118.3648	118.3648	4.0400e-003	0.0170	123.5424
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.0962	0.2905	1.0948	3.9800e-003	0.3738	3.1000e-003	0.3769	0.1000	2.8900e-003	0.1029		409.8838	409.8838	0.0109	0.0235	417.1513

3.4 Site Grading/Excavation - 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					6.4517	0.0000	6.4517	3.3576	0.0000	3.3576			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.0541	2,873.0541	0.9292		2,896.2842
Total	1.6617	17.0310	14.7594	0.0297	6.4517	0.7244	7.1761	3.3576	0.6665	4.0240		2,873.0541	2,873.0541	0.9292		2,896.2842

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.4 Site Grading/Excavation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0518	3.1448	0.8520	0.0138	0.4208	0.0200	0.4407	0.1154	0.0191	0.1345		1,522.979 4	1,522.979 4	0.0859	0.2419	1,597.224 6
Vendor	0.0223	0.7692	0.2911	3.6600e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		394.5492	394.5492	0.0135	0.0568	411.8080
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.1636	3.9738	2.1506	0.0204	0.8842	0.0258	0.9100	0.2412	0.0246	0.2658		2,209.047 7	2,209.047 7	0.1062	0.3052	2,302.641 6

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					2.9033	0.0000	2.9033	1.5109	0.0000	1.5109			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	0.3632	1.5737	17.7527	0.0297	2.9033	0.0484	2.9517	1.5109	0.0484	1.5593	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.4 Site Grading/Excavation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0518	3.1448	0.8520	0.0138	0.4208	0.0200	0.4407	0.1154	0.0191	0.1345		1,522.979 4	1,522.979 4	0.0859	0.2419	1,597.224 6
Vendor	0.0223	0.7692	0.2911	3.6600e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		394.5492	394.5492	0.0135	0.0568	411.8080
Worker	0.0895	0.0597	1.0075	2.8800e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		291.5190	291.5190	6.8400e-003	6.4400e-003	293.6089
Total	0.1636	3.9738	2.1506	0.0204	0.8842	0.0258	0.9100	0.2412	0.0246	0.2658		2,209.047 7	2,209.047 7	0.1062	0.3052	2,302.641 6

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.698 9	2,555.698 9	0.6044		2,570.807 7

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3846	0.1455	1.8300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		197.2746	197.2746	6.7400e-003	0.0284	205.9040
Worker	0.5963	0.3983	6.7165	0.0192	2.2355	0.0129	2.2484	0.5929	0.0119	0.6047		1,943.4602	1,943.4602	0.0456	0.0429	1,957.3929
Total	0.6075	0.7829	6.8620	0.0211	2.2996	0.0148	2.3144	0.6113	0.0137	0.6250		2,140.7348	2,140.7348	0.0524	0.0713	2,163.2969

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	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0112	0.3846	0.1455	1.8300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		197.2746	197.2746	6.7400e-003	0.0284	205.9040
Worker	0.5963	0.3983	6.7165	0.0192	2.2355	0.0129	2.2484	0.5929	0.0119	0.6047		1,943.4602	1,943.4602	0.0456	0.0429	1,957.3929
Total	0.6075	0.7829	6.8620	0.0211	2.2996	0.0148	2.3144	0.6113	0.0137	0.6250		2,140.7348	2,140.7348	0.0524	0.0713	2,163.2969

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3828	0.1429	1.8000e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8600e-003	0.0203		193.7229	193.7229	6.7800e-003	0.0279	202.2070
Worker	0.5574	0.3576	6.2466	0.0186	2.2355	0.0123	2.2478	0.5929	0.0113	0.6042		1,877.2548	1,877.2548	0.0411	0.0401	1,890.2312
Total	0.5683	0.7404	6.3895	0.0204	2.2996	0.0142	2.3138	0.6113	0.0131	0.6245		2,070.9777	2,070.9777	0.0479	0.0680	2,092.4383

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0109	0.3828	0.1429	1.8000e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8600e-003	0.0203		193.7229	193.7229	6.7800e-003	0.0279	202.2070
Worker	0.5574	0.3576	6.2466	0.0186	2.2355	0.0123	2.2478	0.5929	0.0113	0.6042		1,877.2548	1,877.2548	0.0411	0.0401	1,890.2312
Total	0.5683	0.7404	6.3895	0.0204	2.2996	0.0142	2.3138	0.6113	0.0131	0.6245		2,070.9777	2,070.9777	0.0479	0.0680	2,092.4383

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3800	0.1408	1.7600e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		190.1274	190.1274	6.8300e-003	0.0274	198.4629
Worker	0.3931	0.2434	4.3932	0.0135	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,365.0580	1,365.0580	0.0280	0.0283	1,374.2034
Total	0.4037	0.6234	4.5340	0.0153	1.7407	0.0107	1.7514	0.4631	9.8800e-003	0.4730		1,555.1854	1,555.1854	0.0348	0.0557	1,572.6662

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3800	0.1408	1.7600e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		190.1274	190.1274	6.8300e-003	0.0274	198.4629
Worker	0.3931	0.2434	4.3932	0.0135	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,365.0580	1,365.0580	0.0280	0.0283	1,374.2034
Total	0.4037	0.6234	4.5340	0.0153	1.7407	0.0107	1.7514	0.4631	9.8800e-003	0.4730		1,555.1854	1,555.1854	0.0348	0.0557	1,572.6662

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2027

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	0.0103	0.3772	0.1392	1.7300e-003	0.0641	1.9300e-003	0.0660	0.0184	1.8500e-003	0.0203		186.3857	186.3857	6.8500e-003	0.0269	194.5670
Worker	0.3704	0.2224	4.1455	0.0131	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,327.1056	1,327.1056	0.0256	0.0269	1,335.7589
Total	0.3807	0.5996	4.2846	0.0149	1.7407	0.0101	1.7508	0.4631	9.3700e-003	0.4725		1,513.4913	1,513.4913	0.0324	0.0538	1,530.3260

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.6 Paving - 2027

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	0.0103	0.3772	0.1392	1.7300e-003	0.0641	1.9300e-003	0.0660	0.0184	1.8500e-003	0.0203		186.3857	186.3857	6.8500e-003	0.0269	194.5670
Worker	0.3704	0.2224	4.1455	0.0131	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,327.1056	1,327.1056	0.0256	0.0269	1,335.7589
Total	0.3807	0.5996	4.2846	0.0149	1.7407	0.0101	1.7508	0.4631	9.3700e-003	0.4725		1,513.4913	1,513.4913	0.0324	0.0538	1,530.3260

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	9.8146	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3800	0.1408	1.7600e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		190.1274	190.1274	6.8300e-003	0.0274	198.4629
Worker	0.3931	0.2434	4.3932	0.0135	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,365.0580	1,365.0580	0.0280	0.0283	1,374.2034
Total	0.4037	0.6234	4.5340	0.0153	1.7407	0.0107	1.7514	0.4631	9.8800e-003	0.4730		1,555.1854	1,555.1854	0.0348	0.0557	1,572.6662

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	9.6734	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3800	0.1408	1.7600e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		190.1274	190.1274	6.8300e-003	0.0274	198.4629
Worker	0.3931	0.2434	4.3932	0.0135	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,365.0580	1,365.0580	0.0280	0.0283	1,374.2034
Total	0.4037	0.6234	4.5340	0.0153	1.7407	0.0107	1.7514	0.4631	9.8800e-003	0.4730		1,555.1854	1,555.1854	0.0348	0.0557	1,572.6662

3.7 Architectural Coating - 2027

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	9.8146	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2027

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	0.0103	0.3772	0.1392	1.7300e-003	0.0641	1.9300e-003	0.0660	0.0184	1.8500e-003	0.0203		186.3857	186.3857	6.8500e-003	0.0269	194.5670
Worker	0.3704	0.2224	4.1455	0.0131	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,327.1056	1,327.1056	0.0256	0.0269	1,335.7589
Total	0.3807	0.5996	4.2846	0.0149	1.7407	0.0101	1.7508	0.4631	9.3700e-003	0.4725		1,513.4913	1,513.4913	0.0324	0.0538	1,530.3260

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	9.6734	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.7 Architectural Coating - 2027

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	0.0103	0.3772	0.1392	1.7300e-003	0.0641	1.9300e-003	0.0660	0.0184	1.8500e-003	0.0203		186.3857	186.3857	6.8500e-003	0.0269	194.5670
Worker	0.3704	0.2224	4.1455	0.0131	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,327.1056	1,327.1056	0.0256	0.0269	1,335.7589
Total	0.3807	0.5996	4.2846	0.0149	1.7407	0.0101	1.7508	0.4631	9.3700e-003	0.4725		1,513.4913	1,513.4913	0.0324	0.0538	1,530.3260

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0217	0.7656	0.2857	3.5900e-003	0.1281	3.9000e-003	0.1320	0.0369	3.7300e-003	0.0406		387.4458	387.4458	0.0136	0.0558	404.4141
Worker	0.8361	0.5365	9.3699	0.0279	3.3533	0.0184	3.3717	0.8893	0.0169	0.9062		2,815.8822	2,815.8822	0.0617	0.0601	2,835.3468
Total	0.8578	1.3021	9.6556	0.0315	3.4814	0.0223	3.5037	0.9262	0.0207	0.9469		3,203.3279	3,203.3279	0.0753	0.1159	3,239.7609

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0217	0.7656	0.2857	3.5900e-003	0.1281	3.9000e-003	0.1320	0.0369	3.7300e-003	0.0406		387.4458	387.4458	0.0136	0.0558	404.4141
Worker	0.8361	0.5365	9.3699	0.0279	3.3533	0.0184	3.3717	0.8893	0.0169	0.9062		2,815.8822	2,815.8822	0.0617	0.0601	2,835.3468
Total	0.8578	1.3021	9.6556	0.0315	3.4814	0.0223	3.5037	0.9262	0.0207	0.9469		3,203.3279	3,203.3279	0.0753	0.1159	3,239.7609

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0212	0.7600	0.2817	3.5200e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		380.2549	380.2549	0.0137	0.0548	396.9257
Worker	0.7861	0.4868	8.7864	0.0270	3.3533	0.0174	3.3707	0.8893	0.0160	0.9054		2,730.1159	2,730.1159	0.0560	0.0567	2,748.4067
Total	0.8073	1.2468	9.0680	0.0305	3.4814	0.0213	3.5027	0.9262	0.0198	0.9460		3,110.3708	3,110.3708	0.0697	0.1115	3,145.3325

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0212	0.7600	0.2817	3.5200e-003	0.1281	3.8900e-003	0.1320	0.0369	3.7200e-003	0.0406		380.2549	380.2549	0.0137	0.0548	396.9257
Worker	0.7861	0.4868	8.7864	0.0270	3.3533	0.0174	3.3707	0.8893	0.0160	0.9054		2,730.1159	2,730.1159	0.0560	0.0567	2,748.4067
Total	0.8073	1.2468	9.0680	0.0305	3.4814	0.0213	3.5027	0.9262	0.0198	0.9460		3,110.3708	3,110.3708	0.0697	0.1115	3,145.3325

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.4156	5.1977	53.8224	0.1228	14.0153	0.0841	14.0995	3.7337	0.0781	3.8119		12,525.6128	12,525.6128	0.8202	0.4997	12,695.0320
Unmitigated	5.4156	5.1977	53.8224	0.1228	14.0153	0.0841	14.0995	3.7337	0.0781	3.8119		12,525.6128	12,525.6128	0.8202	0.4997	12,695.0320

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,413.68	1,275.92	1062.72	4,592,184	4,592,184
Condo/Townhouse	480.00	534.00	411.75	1,633,277	1,633,277
Enclosed Parking with Elevator	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,893.68	1,809.92	1,474.47	6,225,460	6,225,460

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Condo/Townhouse	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Enclosed Parking with Elevator	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Recreational Swimming Pool	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

6.1 Mitigation Measures Area

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
Unmitigated	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

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	0.6235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0026	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845		59.9893	59.9893	0.0577		61.4305
Total	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0026	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845		59.9893	59.9893	0.0577		61.4305
Total	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

7.0 Water Detail

7.1 Mitigation Measures Water

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

Normandie Crossing Specific Plan Project

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	328.00	Dwelling Unit	2.32	241,581.00	938
Condo/Townhouse	75.00	Dwelling Unit	2.93	115,982.00	215
Enclosed Parking with Elevator	559.00	Space	1.59	138,625.00	0
Recreational Swimming Pool	1.60	1000sqft	0.04	1,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	339.11	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - SCE RPS in 2027
- Land Use - Project-specific land use
- Construction Phase - construction schedule based on project-specific information
- Grading - soil export quantities based on project-specific data
- Demolition -
- Trips and VMT - construction trips based on project-specific information
- Vehicle Trips - Project-specific trip rates
- Woodstoves - no wood-burning fireplaces or woodstoves

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

Energy Use - No natural gas use for apartments, townhomes, or swimming pools; electricity use that accounts for the natural gas replacement in the residential dwelling units is included

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	13.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	230.00	236.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	52.00
tblConstructionPhase	NumDays	20.00	236.00
tblConstructionPhase	NumDays	10.00	26.00
tblConstructionPhase	NumDays	230.00	391.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	9/19/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	7/25/2025	9/1/2025
tblConstructionPhase	PhaseEndDate	7/26/2024	8/30/2024
tblConstructionPhase	PhaseEndDate	9/6/2024	11/29/2024
tblConstructionPhase	PhaseEndDate	8/22/2025	9/2/2027
tblConstructionPhase	PhaseEndDate	8/9/2024	9/30/2024
tblConstructionPhase	PhaseStartDate	8/23/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	9/7/2024	11/30/2024
tblConstructionPhase	PhaseStartDate	8/10/2024	10/1/2024
tblConstructionPhase	PhaseStartDate	7/26/2025	12/2/2026
tblConstructionPhase	PhaseStartDate	7/27/2024	8/31/2024
tblEnergyUse	LightingElect	741.44	1,233.99
tblEnergyUse	LightingElect	1,001.10	1,782.19
tblEnergyUse	NT24E	3,054.10	5,083.00
tblEnergyUse	NT24E	3,795.01	6,755.99
tblEnergyUse	NT24NG	5,516.00	0.00
tblEnergyUse	NT24NG	5,516.00	0.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

tblEnergyUse	T24E	38.29	63.73
tblEnergyUse	T24E	36.21	64.46
tblEnergyUse	T24NG	5,633.62	0.00
tblEnergyUse	T24NG	10,989.44	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	278.80	0.00
tblFireplaces	NumberGas	63.75	0.00
tblFireplaces	NumberNoFireplace	32.80	328.00
tblFireplaces	NumberNoFireplace	7.50	75.00
tblFireplaces	NumberWood	16.40	0.00
tblFireplaces	NumberWood	3.75	0.00
tblGrading	AcresOfGrading	52.00	20.00
tblGrading	AcresOfGrading	39.00	15.00
tblGrading	MaterialExported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	328,000.00	241,581.00
tblLandUse	LandUseSquareFeet	75,000.00	115,982.00
tblLandUse	LandUseSquareFeet	223,600.00	138,625.00
tblLandUse	LotAcreage	8.63	2.32
tblLandUse	LotAcreage	4.69	2.93
tblLandUse	LotAcreage	5.03	1.59
tblProjectCharacteristics	CO2IntensityFactor	390.98	339.11
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	66.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	66.00	20.00

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	18.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	30.00
tblTripsAndVMT	WorkerTripNumber	349.00	200.00
tblTripsAndVMT	WorkerTripNumber	15.00	150.00
tblTripsAndVMT	WorkerTripNumber	70.00	150.00
tblTripsAndVMT	WorkerTripNumber	349.00	300.00
tblVehicleTrips	ST_TR	4.91	3.89
tblVehicleTrips	ST_TR	8.14	7.12
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	3.24
tblVehicleTrips	SU_TR	6.28	5.49
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	4.31
tblVehicleTrips	WD_TR	7.32	6.40
tblVehicleTrips	WD_TR	28.82	0.00
tblWoodstoves	NumberCatalytic	16.40	0.00
tblWoodstoves	NumberCatalytic	3.75	0.00
tblWoodstoves	NumberNoncatalytic	16.40	0.00
tblWoodstoves	NumberNoncatalytic	3.75	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7638	27.4836	22.4960	0.0509	19.0519	1.2325	20.2843	10.0968	1.1339	11.2307	0.0000	5,069.0665	5,069.0665	1.2038	0.3060	5,186.1405
2025	2.2926	13.8636	25.0062	0.0570	3.4814	0.5499	4.0313	0.9262	0.5169	1.4431	0.0000	5,612.6150	5,612.6150	0.6772	0.1202	5,665.3475
2026	11.6032	13.8029	24.7719	0.0561	3.4814	0.5489	4.0303	0.9262	0.5160	1.4422	0.0000	5,524.3968	5,524.3968	0.7996	0.1154	5,575.5820
2027	11.5560	11.0081	24.3159	0.0541	3.4814	0.4903	3.9717	0.9262	0.4553	1.3815	0.0000	5,376.8662	5,376.8662	0.7948	0.1113	5,429.8981
Maximum	11.6032	27.4836	25.0062	0.0570	19.0519	1.2325	20.2843	10.0968	1.1339	11.2307	0.0000	5,612.6150	5,612.6150	1.2038	0.3060	5,665.3475

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
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	5.3181	5.6063	52.9085	0.1176	14.0153	0.0842	14.0995	3.7337	0.0782	3.8119		12,005.4433	12,005.4433	0.8417	0.5207	12,181.6404
Total	14.0730	5.9894	86.1821	0.1194	14.0153	0.2687	14.2840	3.7337	0.2627	3.9964	0.0000	12,065.4326	12,065.4326	0.8993	0.5207	12,243.0709

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	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
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	5.3181	5.6063	52.9085	0.1176	14.0153	0.0842	14.0995	3.7337	0.0782	3.8119		12,005.4433	12,005.4433	0.8417	0.5207	12,181.6404
Total	14.0730	5.9894	86.1821	0.1194	14.0153	0.2687	14.2840	3.7337	0.2627	3.9964	0.0000	12,065.4326	12,065.4326	0.8993	0.5207	12,243.0709

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/30/2024	8/30/2024	6	53	
2	Site Preparation	Site Preparation	8/31/2024	9/30/2024	6	26	
3	Site Grading/Excavation	Grading	10/1/2024	11/29/2024	6	52	
4	Twnhouse & Apartment Foundations and Garages	Building Construction	11/30/2024	9/1/2025	6	236	
5	Paving	Paving	12/2/2026	9/2/2027	6	236	
6	Architectural Coating	Architectural Coating	12/2/2026	9/2/2027	6	236	
7	Twnhouse & Apartment Framing/Rough-In	Building Construction	9/2/2025	12/1/2026	6	391	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.59

Residential Indoor: 724,065; Residential Outdoor: 241,355; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,318 (Architectural Coating – sqft)

OffRoad Equipment

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

Site Grading/Excavation	Excavators	1	8.00	158	0.38
Twnhouse & Apartment Foundations and Garages	Forklifts	3	8.00	89	0.20
Twnhouse & Apartment Foundations and Garages	Generator Sets	1	8.00	84	0.74
Site Grading/Excavation	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Grading/Excavation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Twnhouse & Apartment Foundations and Garages	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Site Grading/Excavation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Twnhouse & Apartment Foundations and Garages	Welders	1	8.00	46	0.45
Twnhouse & Apartment Framing/Rough-In	Cranes	1	7.00	231	0.29
Twnhouse & Apartment Framing/Rough-In	Forklifts	3	8.00	89	0.20
Twnhouse & Apartment Framing/Rough-In	Generator Sets	1	8.00	84	0.74
Twnhouse & Apartment Framing/Rough-In	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Twnhouse & Apartment Framing/Rough-In	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	30.00	20.00	525.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	30.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Grading/Excavation	6	30.00	20.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

Twnhouse & Apartment Foundation Paving	9	200.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	150.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Twnhouse & Apartment Framing/R	9	300.00	20.00	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 - 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					2.1437	0.0000	2.1437	0.3246	0.0000	0.3246			0.0000			0.0000
Off-Road	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
Total	2.2437	20.8781	19.7073	0.0388	2.1437	0.9602	3.1039	0.3246	0.8922	1.2168		3,747.4228	3,747.4228	1.0485		3,773.6345

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0200	1.3531	0.3558	5.7100e-003	0.1734	8.2400e-003	0.1816	0.0475	7.8800e-003	0.0554		628.2531	628.2531	0.0353	0.0998	658.8784
Vendor	0.0215	0.8054	0.3003	3.6700e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		395.2287	395.2287	0.0134	0.0569	412.5305
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1379	2.2245	1.5830	0.0121	0.6368	0.0141	0.6509	0.1734	0.0134	0.1868		1,299.6587	1,299.6587	0.0557	0.1636	1,349.8082

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					0.9647	0.0000	0.9647	0.1461	0.0000	0.1461			0.0000			0.0000
Off-Road	0.4623	2.0032	23.2798	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
Total	0.4623	2.0032	23.2798	0.0388	0.9647	0.0616	1.0263	0.1461	0.0616	0.2077	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0200	1.3531	0.3558	5.7100e-003	0.1734	8.2400e-003	0.1816	0.0475	7.8800e-003	0.0554		628.2531	628.2531	0.0353	0.0998	658.8784
Vendor	0.0215	0.8054	0.3003	3.6700e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		395.2287	395.2287	0.0134	0.0569	412.5305
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1379	2.2245	1.5830	0.0121	0.6368	0.0141	0.6509	0.1734	0.0134	0.1868		1,299.6587	1,299.6587	0.0557	0.1636	1,349.8082

3.3 Site Preparation - 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					18.6781	0.0000	18.6781	9.9968	0.0000	9.9968			0.0000			0.0000
Off-Road	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.0100	3,688.0100	1.1928		3,717.8294
Total	2.6609	27.1760	18.3356	0.0381	18.6781	1.2294	19.9074	9.9968	1.1310	11.1278		3,688.0100	3,688.0100	1.1928		3,717.8294

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4500e-003	0.2416	0.0901	1.1000e-003	0.0384	1.1700e-003	0.0396	0.0111	1.1200e-003	0.0122		118.5686	118.5686	4.0200e-003	0.0171	123.7591
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1029	0.3076	1.0169	3.8300e-003	0.3738	3.1000e-003	0.3769	0.1000	2.9000e-003	0.1029		394.7455	394.7455	0.0110	0.0240	402.1585

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					8.4051	0.0000	8.4051	4.4985	0.0000	4.4985			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		0.0621	0.0621		0.0621	0.0621	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294
Total	0.4656	2.0175	20.8690	0.0381	8.4051	0.0621	8.4672	4.4985	0.0621	4.5606	0.0000	3,688.0100	3,688.0100	1.1928		3,717.8294

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.4500e-003	0.2416	0.0901	1.1000e-003	0.0384	1.1700e-003	0.0396	0.0111	1.1200e-003	0.0122		118.5686	118.5686	4.0200e-003	0.0171	123.7591
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1029	0.3076	1.0169	3.8300e-003	0.3738	3.1000e-003	0.3769	0.1000	2.9000e-003	0.1029		394.7455	394.7455	0.0110	0.0240	402.1585

3.4 Site Grading/Excavation - 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					6.4517	0.0000	6.4517	3.3576	0.0000	3.3576			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	6.4517	0.7244	7.1761	3.3576	0.6665	4.0240		2,873.054 1	2,873.054 1	0.9292		2,896.284 2

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.4 Site Grading/Excavation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0484	3.2836	0.8634	0.0139	0.4208	0.0200	0.4408	0.1154	0.0191	0.1345		1,524.6069	1,524.6069	0.0857	0.2422	1,598.9265
Vendor	0.0215	0.8054	0.3003	3.6700e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		395.2287	395.2287	0.0134	0.0569	412.5305
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1663	4.1550	2.0906	0.0203	0.8842	0.0258	0.9101	0.2412	0.0247	0.2658		2,196.0125	2,196.0125	0.1061	0.3060	2,289.8563

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					2.9033	0.0000	2.9033	1.5109	0.0000	1.5109			0.0000			0.0000
Off-Road	0.3632	1.5737	17.7527	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842
Total	0.3632	1.5737	17.7527	0.0297	2.9033	0.0484	2.9517	1.5109	0.0484	1.5593	0.0000	2,873.0541	2,873.0541	0.9292		2,896.2842

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.4 Site Grading/Excavation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0484	3.2836	0.8634	0.0139	0.4208	0.0200	0.4408	0.1154	0.0191	0.1345		1,524.6069	1,524.6069	0.0857	0.2422	1,598.9265
Vendor	0.0215	0.8054	0.3003	3.6700e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		395.2287	395.2287	0.0134	0.0569	412.5305
Worker	0.0964	0.0660	0.9269	2.7300e-003	0.3353	1.9300e-003	0.3373	0.0889	1.7800e-003	0.0907		276.1769	276.1769	6.9500e-003	6.8800e-003	278.3994
Total	0.1663	4.1550	2.0906	0.0203	0.8842	0.0258	0.9101	0.2412	0.0247	0.2658		2,196.0125	2,196.0125	0.1061	0.3060	2,289.8563

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Unmitigated Construction On-Site

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.4027	0.1502	1.8300e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		197.6143	197.6143	6.7100e-003	0.0285	206.2652
Worker	0.6428	0.4398	6.1790	0.0182	2.2355	0.0129	2.2484	0.5929	0.0119	0.6047		1,841.1792	1,841.1792	0.0463	0.0458	1,855.9958
Total	0.6536	0.8425	6.3292	0.0201	2.2996	0.0148	2.3144	0.6113	0.0137	0.6250		2,038.7935	2,038.7935	0.0530	0.0743	2,062.2610

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	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	0.5199	2.6115	17.6271	0.0270		0.0853	0.0853		0.0853	0.0853	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.5 Twnhouse & Apartment Foundations and Garages - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.4027	0.1502	1.8300e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		197.6143	197.6143	6.7100e-003	0.0285	206.2652
Worker	0.6428	0.4398	6.1790	0.0182	2.2355	0.0129	2.2484	0.5929	0.0119	0.6047		1,841.1792	1,841.1792	0.0463	0.0458	1,855.9958
Total	0.6536	0.8425	6.3292	0.0201	2.2996	0.0148	2.3144	0.6113	0.0137	0.6250		2,038.7935	2,038.7935	0.0530	0.0743	2,062.2610

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.4008	0.1474	1.8000e-003	0.0641	1.9600e-003	0.0660	0.0184	1.8700e-003	0.0203		194.0625	194.0625	6.7500e-003	0.0280	202.5675
Worker	0.6029	0.3949	5.7511	0.0176	2.2355	0.0123	2.2478	0.5929	0.0113	0.6042		1,778.6771	1,778.6771	0.0418	0.0428	1,792.4762
Total	0.6133	0.7957	5.8985	0.0194	2.2996	0.0142	2.3138	0.6113	0.0132	0.6245		1,972.7396	1,972.7396	0.0486	0.0708	1,995.0438

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.5 Twnhouse & Apartment Foundations and Garages - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0104	0.4008	0.1474	1.8000e-003	0.0641	1.9600e-003	0.0660	0.0184	1.8700e-003	0.0203		194.0625	194.0625	6.7500e-003	0.0280	202.5675
Worker	0.6029	0.3949	5.7511	0.0176	2.2355	0.0123	2.2478	0.5929	0.0113	0.6042		1,778.6771	1,778.6771	0.0418	0.0428	1,792.4762
Total	0.6133	0.7957	5.8985	0.0194	2.2996	0.0142	2.3138	0.6113	0.0132	0.6245		1,972.7396	1,972.7396	0.0486	0.0708	1,995.0438

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3979	0.1453	1.7700e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		190.4661	190.4661	6.8000e-003	0.0275	198.8219
Worker	0.4266	0.2687	4.0471	0.0128	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,293.4952	1,293.4952	0.0285	0.0302	1,303.2201
Total	0.4368	0.6666	4.1924	0.0146	1.7407	0.0107	1.7514	0.4631	9.8900e-003	0.4730		1,483.9612	1,483.9612	0.0353	0.0577	1,502.0420

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3979	0.1453	1.7700e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		190.4661	190.4661	6.8000e-003	0.0275	198.8219
Worker	0.4266	0.2687	4.0471	0.0128	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,293.4952	1,293.4952	0.0285	0.0302	1,303.2201
Total	0.4368	0.6666	4.1924	0.0146	1.7407	0.0107	1.7514	0.4631	9.8900e-003	0.4730		1,483.9612	1,483.9612	0.0353	0.0577	1,502.0420

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2027

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	9.8900e-003	0.3950	0.1436	1.7300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		186.7227	186.7227	6.8100e-003	0.0270	194.9241
Worker	0.4032	0.2455	3.8207	0.0124	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,257.6138	1,257.6138	0.0260	0.0287	1,266.8152
Total	0.4131	0.6405	3.9644	0.0142	1.7407	0.0101	1.7508	0.4631	9.3800e-003	0.4725		1,444.3365	1,444.3365	0.0329	0.0556	1,461.7392

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.2805	1.2154	17.2957	0.0228		0.0374	0.0374		0.0374	0.0374	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.6 Paving - 2027

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	9.8900e-003	0.3950	0.1436	1.7300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		186.7227	186.7227	6.8100e-003	0.0270	194.9241
Worker	0.4032	0.2455	3.8207	0.0124	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,257.6138	1,257.6138	0.0260	0.0287	1,266.8152
Total	0.4131	0.6405	3.9644	0.0142	1.7407	0.0101	1.7508	0.4631	9.3800e-003	0.4725		1,444.3365	1,444.3365	0.0329	0.0556	1,461.7392

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	9.8146	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3979	0.1453	1.7700e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		190.4661	190.4661	6.8000e-003	0.0275	198.8219
Worker	0.4266	0.2687	4.0471	0.0128	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,293.4952	1,293.4952	0.0285	0.0302	1,303.2201
Total	0.4368	0.6666	4.1924	0.0146	1.7407	0.0107	1.7514	0.4631	9.8900e-003	0.4730		1,483.9612	1,483.9612	0.0353	0.0577	1,502.0420

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	9.6734	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0101	0.3979	0.1453	1.7700e-003	0.0641	1.9500e-003	0.0660	0.0184	1.8700e-003	0.0203		190.4661	190.4661	6.8000e-003	0.0275	198.8219
Worker	0.4266	0.2687	4.0471	0.0128	1.6767	8.7100e-003	1.6854	0.4447	8.0200e-003	0.4527		1,293.4952	1,293.4952	0.0285	0.0302	1,303.2201
Total	0.4368	0.6666	4.1924	0.0146	1.7407	0.0107	1.7514	0.4631	9.8900e-003	0.4730		1,483.9612	1,483.9612	0.0353	0.0577	1,502.0420

3.7 Architectural Coating - 2027

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	9.8146	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2027

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	9.8900e-003	0.3950	0.1436	1.7300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		186.7227	186.7227	6.8100e-003	0.0270	194.9241
Worker	0.4032	0.2455	3.8207	0.0124	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,257.6138	1,257.6138	0.0260	0.0287	1,266.8152
Total	0.4131	0.6405	3.9644	0.0142	1.7407	0.0101	1.7508	0.4631	9.3800e-003	0.4725		1,444.3365	1,444.3365	0.0329	0.0556	1,461.7392

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	9.6437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319
Total	9.6734	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0154		281.8319

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.7 Architectural Coating - 2027

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	9.8900e-003	0.3950	0.1436	1.7300e-003	0.0641	1.9400e-003	0.0660	0.0184	1.8600e-003	0.0203		186.7227	186.7227	6.8100e-003	0.0270	194.9241
Worker	0.4032	0.2455	3.8207	0.0124	1.6767	8.1800e-003	1.6848	0.4447	7.5200e-003	0.4522		1,257.6138	1,257.6138	0.0260	0.0287	1,266.8152
Total	0.4131	0.6405	3.9644	0.0142	1.7407	0.0101	1.7508	0.4631	9.3800e-003	0.4725		1,444.3365	1,444.3365	0.0329	0.0556	1,461.7392

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.8016	0.2949	3.6000e-003	0.1281	3.9200e-003	0.1320	0.0369	3.7500e-003	0.0406		388.1250	388.1250	0.0135	0.0560	405.1351
Worker	0.9044	0.5923	8.6267	0.0264	3.3533	0.0184	3.3717	0.8893	0.0169	0.9062		2,668.0157	2,668.0157	0.0627	0.0642	2,688.7144
Total	0.9252	1.3939	8.9215	0.0300	3.4814	0.0223	3.5037	0.9262	0.0207	0.9469		3,056.1406	3,056.1406	0.0762	0.1202	3,093.8494

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0208	0.8016	0.2949	3.6000e-003	0.1281	3.9200e-003	0.1320	0.0369	3.7500e-003	0.0406		388.1250	388.1250	0.0135	0.0560	405.1351
Worker	0.9044	0.5923	8.6267	0.0264	3.3533	0.0184	3.3717	0.8893	0.0169	0.9062		2,668.0157	2,668.0157	0.0627	0.0642	2,688.7144
Total	0.9252	1.3939	8.9215	0.0300	3.4814	0.0223	3.5037	0.9262	0.0207	0.9469		3,056.1406	3,056.1406	0.0762	0.1202	3,093.8494

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7958	0.2907	3.5300e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		380.9321	380.9321	0.0136	0.0549	397.6438
Worker	0.8533	0.5374	8.0941	0.0256	3.3533	0.0174	3.3707	0.8893	0.0160	0.9054		2,586.9904	2,586.9904	0.0570	0.0605	2,606.4402
Total	0.8735	1.3332	8.3848	0.0291	3.4814	0.0213	3.5027	0.9262	0.0198	0.9460		2,967.9225	2,967.9225	0.0706	0.1154	3,004.0839

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	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	0.5038	2.5728	17.6150	0.0270		0.0788	0.0788		0.0788	0.0788	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

3.8 Twnhouse & Apartment Framing/Rough-In - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0203	0.7958	0.2907	3.5300e-003	0.1281	3.9100e-003	0.1320	0.0369	3.7400e-003	0.0406		380.9321	380.9321	0.0136	0.0549	397.6438
Worker	0.8533	0.5374	8.0941	0.0256	3.3533	0.0174	3.3707	0.8893	0.0160	0.9054		2,586.9904	2,586.9904	0.0570	0.0605	2,606.4402
Total	0.8735	1.3332	8.3848	0.0291	3.4814	0.0213	3.5027	0.9262	0.0198	0.9460		2,967.9225	2,967.9225	0.0706	0.1154	3,004.0839

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.3181	5.6063	52.9085	0.1176	14.0153	0.0842	14.0995	3.7337	0.0782	3.8119		12,005.44 33	12,005.44 33	0.8417	0.5207	12,181.64 04
Unmitigated	5.3181	5.6063	52.9085	0.1176	14.0153	0.0842	14.0995	3.7337	0.0782	3.8119		12,005.44 33	12,005.44 33	0.8417	0.5207	12,181.64 04

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,413.68	1,275.92	1062.72	4,592,184	4,592,184
Condo/Townhouse	480.00	534.00	411.75	1,633,277	1,633,277
Enclosed Parking with Elevator	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	1,893.68	1,809.92	1,474.47	6,225,460	6,225,460

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	16.60	8.40	6.90	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Condo/Townhouse	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Enclosed Parking with Elevator	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305
Recreational Swimming Pool	0.535658	0.065965	0.190922	0.126434	0.023737	0.006642	0.011305	0.008056	0.000938	0.000585	0.025742	0.000711	0.003305

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

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	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
Condo/Townhouse	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
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

6.1 Mitigation Measures Area

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305
Unmitigated	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

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	0.6235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0026	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845		59.9893	59.9893	0.0577		61.4305
Total	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.1289					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0026	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845		59.9893	59.9893	0.0577		61.4305
Total	8.7550	0.3831	33.2736	1.7600e-003		0.1845	0.1845		0.1845	0.1845	0.0000	59.9893	59.9893	0.0577	0.0000	61.4305

7.0 Water Detail

7.1 Mitigation Measures Water

Normandie Crossing Specific Plan Project - Los Angeles-South Coast County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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
