



Technical Memorandum

To: Jim Morrissey, City Planner

From: Eliza Laws, Senior Environmental Analyst
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Date: September 28, 2021

Re: Air Quality/Greenhouse Gas Analysis for the Towne Center Specific Plan, City of Canyon Lake

The following air quality assessment was prepared to evaluate whether the expected criteria air pollutant emissions generated as a result of construction and operation of the proposed Project would cause exceedances of the South Coast Air Quality Management District's (SCAQMD) thresholds for air quality in the Project area. The greenhouse gas (GHG) assessment was prepared to evaluate whether the expected criteria GHG emissions generated as a result of construction and operation of the proposed Project would exceed the SCAQMD draft screening significance thresholds. This assessment was conducted within the context of the California Environmental Quality Act (CEQA, California Public Resources Code Sections 21000 *et seq.*). The methodology follows the *CEQA Air Quality Handbook* prepared by the SCAQMD for quantification of emissions and evaluation of potential impacts to air resources. As recommended by SCAQMD staff, the **California Emissions Estimator Model**[®] version 2020.4.0 (CalEEMod) was used to quantify Project-related emissions.

The SCAQMD is responsible for bringing the air quality in the areas of its jurisdiction into conformity with the federal and state air quality standards and develops and updates clean air plans, such as the regional Air Quality Management Plan (AQMP), which contain guidelines intended to support efforts to develop rules and regulations, establish permitting requirements, inspect emission sources, and enforce such measures through educational programs or fines, when necessary.

The proposed Project is located within the South Coast Air Basin (the Basin), which is under the jurisdiction of the SCAQMD. The Basin consists of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. Regional and local air quality within the Basin is affected by topography, atmospheric inversions, and dominant onshore flows. Topographic features such as the San Gabriel, San Bernardino, and San Jacinto Mountains form natural horizontal barriers to the dispersion of air contaminants.

The Towne Center Specific Plan (TCSP or proposed Project) site is located south of Railroad Canyon Road the City of Canyon Lake, Riverside County. The TCSP is a specific plan for the existing Towne Center, a 19.6-acre site that is comprised of commercial/retail mixed-uses. The TCSP would provide the basic framework, design, and implementing guidelines to allow for the re-development of the site with mixed-use residential. The TCSP is anticipated to remove 79,700 square feet (sf) of existing retail uses and add 31,000 sf of retail space, which equates to a net reduction of 48,700 sf of retail space. The TCSP is assumed to add 103,000 sf of office space, 188 multi-family units, and the potential for future subsurface parking as well as circulation and pedestrian enhancements throughout the TCSP site.

▪ Regional Significance Thresholds

The thresholds contained in the *SCAQMD CEQA Air Quality Handbook*¹ (SCAQMD 1993) and posted in a supplemental table as mass daily thresholds on SCAQMD's website² are considered regional thresholds and are shown in **Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds**, below. These regional thresholds were developed for criteria pollutants based on the SCAQMD's treatment of a major stationary source.

The criteria pollutants analyzed are briefly described below:

- **Reactive Organic Gases/Volatile Organic Compounds (ROG/VOC)** - It should be noted that there are no state or federal ambient air quality standards for VOCs because they are not classified as criteria pollutants. VOCs are regulated; however, a reduction in VOC emissions reduces certain chemical reactions, which contribute to the formation of ozone. VOCs are also transformed into organic aerosols in the atmosphere, contributing to higher PM-10 and lower visibility levels. Although health-based standards have not been established for VOCs, health effects can occur from exposures to high concentrations of VOC because of interference with oxygen uptake. In general, ambient VOC concentrations in the atmosphere, even at low concentrations, are suspected to cause coughing, sneezing, headaches, weakness, laryngitis, and bronchitis. Some hydrocarbon components classified as VOC emissions are thought or known to be hazardous. Benzene, for example, is a hydrocarbon component of VOC emissions that is known to be a human carcinogen.³
- **Oxides of Nitrogen (NO_x)** – Those that are important in air pollution are nitric oxide (NO) and nitrogen dioxide (NO₂). NO is a colorless, odorless gas formed by a combination of nitrogen and oxygen when combustion takes place under high temperatures and pressures. NO₂ is a reddish-brown gas formed by the combination of NO with oxygen. Combustion in motor vehicle engines, power plants, refineries and other industrial operations, as well as ships, railroads, and aircraft are the primary sources of NO_x. NO₂ at atmospheric concentrations is a potential irritant that can cause coughing in healthy people; can alter respiratory responsiveness and pulmonary functions in people with preexisting respiratory illness; and potentially lead to increased levels of respiratory illness in children.⁴
- **Carbon Monoxide (CO)** – A colorless, odorless toxic gas produced by incomplete combustion of carbon-containing substances. Concentrations of CO are generally higher during the winter months when meteorological conditions favor the build-up of primary pollutants.⁵ Automobiles are the major source of CO in the Basin, although various industrial processes also emit CO through incomplete combustion of fuels. In high concentrations, CO can cause serious health problems in humans by limiting the red blood cells' ability to carry oxygen.⁶
- **Sulfur dioxide (SO₂)/oxides of sulfur (SO_x)** – A colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. SO₂ can result in temporary breathing impairment in asthmatic children and adults engaged in active outdoor activities. When combined with particulate matter, SO₂ can cause symptoms such as shortness of breath and wheezing; and, with long-term exposure, it can lead to the exacerbation of existing cardiovascular disease and respiratory illnesses. Although SO₂ concentrations have been reduced to levels well below state

¹ South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

² <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>

³ South Coast Air Quality Management District, *Guidance Document for Addressing Air Quality Issues in General Plans and Local Planning*, May 6, 2005. (Available at <http://www.aqmd.gov/docs/default-source/planning/air-quality-guidance/complete-guidance-document.pdf>, accessed September 2021.)

⁴ U.S. Environmental Protection Agency, *Criteria Air Pollutants*. (Available at <https://www.epa.gov/criteria-air-pollutants>, accessed September 2021.)

⁵ *Ibid.*

⁶ South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

and federal standards, further reductions in SO₂ emissions are needed because SO₂ is a precursor to sulfate and particulate matter less than 10 microns in diameter.⁷

- **Atmospheric Particulate Matter (PM-10, PM-2.5)** – Made up of fine solid and liquid particles, such as soot, dust, aerosols, fumes, and mists. PM-10 consists of particulate matter that is 10 microns or less in diameter, and PM-2.5 consists of particulate matter of 2.5 microns or less in size. Both PM-10 and PM-2.5 can be inhaled into the deepest part of the lung, attributing to health effects. The presence of these fine particles by themselves cause lung damage and interfere with the body’s ability to clear its respiratory tract. Said particles can also act as a carrier of other toxic substances.⁸

Table 1 – SCAQMD CEQA Daily Regional Significance Thresholds

Emission Threshold	Units	VOC	NO _x	CO	SO _x	PM-10	PM-2.5
Construction	lbs/day	75	100	550	150	150	55
Operation	lbs/day	55	55	550	150	150	55

Air quality impacts can be described in a short- and long-term perspective. Short-term impacts occur during site grading and Project construction and consist of fugitive dust and other particulate matter, as well as exhaust emissions generated by construction-related vehicles. Long-term air quality impacts occur once the Project is in operation.

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust emissions. SCAQMD Rule 403 establishes these procedures. Compliance with this rule is achieved through application of standard best management practices in construction and operation activities, including but not limited to application of water or chemical stabilizers to disturbed soils, managing haul road dust by application of water, covering haul vehicles, restricting vehicle speeds on unpaved roads to 15 mph, sweeping loose dirt from paved site access roadways, cessation of construction activity when winds exceed 25 mph and establishing a permanent, stabilizing ground cover on finished sites. In addition, projects that disturb 50 or more acres or more of soil or move 5,000 cubic yards of materials per day are required to submit a Fugitive Dust Control Plan or a Large Operation Notification Form to SCAQMD. Based on the size of this Project’s disturbance area (approximately 19.6 acres), a Fugitive Dust Control Plan or a Large Operation Notification Form will not be required.

Short-Term Analysis

Short-term emissions from Project construction were evaluated using the CalEEMod version 2020.4.0 program. Because the Project is a Specific Plan, timing of construction by future developers is unknown. However, to provide a conservative analysis the estimated construction period for the proposed Project was based on CalEEMod default of approximately 16 months and is assumed to begin no sooner than September 2022. The default parameters within CalEEMod were used and these default values reflect a worst-case scenario, which means that Project emissions are expected to be equal to or less than the estimated emissions. In addition to the default values used, assumptions relevant to model inputs for short-term construction emission estimates used are:

- Construction is assumed to begin no earlier than September 2022. To provide a conservative analysis, the Project is assumed to be developed in one phase. The estimated schedule is shown below:

⁷ U.S. Environmental Protection Agency, *Criteria Air Pollutants*. (Available at <https://www.epa.gov/criteria-air-pollutants>, accessed February 2021.)

⁸ South Coast Air Quality Management District, *CEQA Air Quality Handbook*, November 1993. (Available at SCAQMD.)

Construction Activity	Start Date	End Date	Total Working Days
Demolition	September 1, 2022	September 28, 2022	20
Grading	September 29, 2022	November 9, 2022	30
Building Construction	November 10, 2022	January 3, 2024	300
Architectural Coatings	January 10, 2023	January 31, 2024	277
Paving	January 4, 2024	January 31, 2024	20

- The off-road equipment to be used for each activity is shown below and represents program defaults, with the following exceptions. The default equipment list for the building construction and architectural coating activities was doubled to provide a more conservative analysis. Two additional excavators were added to the grading phase to account for potential subsurface parking. Each piece of equipment is assumed to operate 8 hours per day:

Construction Activity	Off-Road Equipment	Unit Amount
Demolition	Concrete/Industrial Saws	1
	Excavators	3
	Rubber Tired Dozers	2
Grading	Excavators	4
	Graders	1
	Rubber Tired Dozers	1
	Scrapers	2
	Tractors/Loaders/Backhoes	2
Building Construction	Cranes	2
	Forklifts	6
	Generator Sets	2
	Tractors/Loaders/Backhoes	6
	Welder	2
Paving	Pavers	2
	Paving Equipment	2
	Rollers	2
Architectural Coatings	Air Compressors	2

- To evaluate Project compliance with SCAQMD Rule 403 for fugitive dust control, the Project utilized the mitigation option of watering the Project site three times daily which achieves a control efficiency of 61 percent for PM-10 and PM-2.5 emissions. Two (2) one-way vendor trips per day were added to the demolition, grading, and paving activity to account for water truck trips.
- Approximately 79,700 sf of existing retail uses will be demolished.
- Because the Specific Plan allows for the construction of potential subsurface parking, assumptions for excavation and soil export were developed. During grading activities, it is assumed that approximately 3,000 cubic yards (cy) of soil would be exported daily. This results in a total of approximately 90,000 cy of soil export. The export site is currently unknown. Therefore, the CalEEMod default was utilized which assumes a hauling trip length of 20 miles per trip. Based on the CalEEMod default truck capacity of 16 cubic yards, approximately 188 truckloads of soil would be exported daily.
- No off-site infrastructure improvements are proposed.

The results of this analysis are summarized below.

Table 2 – Estimated Unmitigated Maximum Daily Construction Emissions

Activity	Peak Daily Emissions (lb/day)					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Construction Thresholds	75	100	550	150	150	55
Demolition – 2022	2.76	28.29	21.74	0.05	3.31	1.55
Grading – 2022	5.32	93.07	47.33	0.29	12.96	5.52
Building Construction – 2022	5.37	40.14	52.24	0.12	6.99	3.10
Building Construction – 2023	4.91	36.12	50.57	0.12	6.71	2.85
Building Construction – 2024	4.60	33.99	49.45	0.12	6.53	2.67
Architectural Coatings – 2023	10.03	3.66	7.68	0.02	0.19	0.42
Architectural Coatings – 2024	9.99	3.41	7.49	0.02	1.04	0.40
Paving – 2024	2.37	9.63	15.17	0.02	0.65	0.48
Maximum¹	14.94	93.07	58.25	0.29	12.96	5.52
Exceeds Threshold?	No	No	No	No	No	No

Note: ¹ Maximum emissions are the greater of either demolition, grading, or building construction in 2022 alone, or the sum of building construction and architectural coating in 2023, or the sum of building construction and architectural coating in 2024, or architectural coating and paving in 2024 because these activities overlap. Maximum emissions are rounded and shown in bold.

As shown in the table above, the emissions from construction of the Project are below the SCAQMD daily construction thresholds for all the criteria pollutants.

Long-Term Analysis

Long-term emissions are evaluated at build-out of a project. Because the Project is a Specific Plan, build-out by future developers is unknown. However, to provide a conservative analysis the Project is assumed to be fully re-developed by 2027. Mobile source emissions refer to on-road motor vehicle emissions generated from the Project's traffic and based on the Project-specific vehicle miles traveled (VMT) analysis.⁹ The VMT analysis calculated the daily VMT for the Project to be 21,429 (VMT Analysis, Table A) and this was used to estimate an average trip length for each of the Project's trips that are estimated by CalEEMod. The Project's average trip length is approximately 6.71 miles.

Area source emissions from the Project include stationary combustion emissions of natural gas used for space and water heating (shown in a separate row as energy), yard and landscape maintenance, and consumer use of solvents and personal care products. CalEEMod computes area source emissions based upon default factors and land use assumptions and were utilized with the exception of fireplaces, which were assumed to be absent from the Project. CalEEMod defaults include the 2019 Title 24 energy efficiency standards. Separate emissions were computed for both the summer and winter.

⁹ Translutions Inc., *Canyon Lake Towne Center – VMT Analysis*, August 18, 2021.

Table 3 – Estimated Unmitigated Daily Project Operation Emissions (Summer)

Source	Peak Daily Emissions (lb/day) ¹					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	7.72	0.18	15.52	0.00	0.09	0.09
Energy	0.09	0.80	0.39	0.01	0.06	0.06
Mobile	8.36	9.14	70.38	0.16	17.93	4.86
Total	16.17	10.12	86.29	0.17	18.08	5.01
Exceeds Threshold?	No	No	No	No	No	No

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Table 4 – Estimated Unmitigated Daily Project Operation Emissions (Winter)

Source	Peak Daily Emissions (lb/day) ¹					
	VOC	NO _x	CO	SO ₂	PM-10	PM-2.5
SCAQMD Daily Thresholds	55	55	550	150	150	55
Area	7.72	0.18	15.52	0.00	0.09	0.09
Energy	0.09	0.80	0.39	0.01	0.06	0.06
Mobile	6.94	9.72	63.51	0.15	17.93	4.86
Total	14.75	10.70	79.42	0.16	18.08	5.01
Exceeds Threshold?	No	No	No	No	No	No

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Evaluation of the data presented on the above tables indicates that criteria pollutant emissions from operation of this Project will not exceed the SCAQMD regional daily thresholds during summer or winter.

■ Localized Significance Threshold Analysis

Background

As part of the SCAQMD's environmental justice program, attention has been focused on localized effects of air quality. Staff at SCAQMD has developed localized significance threshold (LST) methodology¹⁰ that can be used by public agencies to determine whether or not a project may generate significant adverse localized air quality impacts (both short- and long-term) to sensitive receptors. SCAQMD considers a sensitive receptor to be a location where a sensitive individual could remain for 24 hours, such as residences, hospitals, or convalescent facilities. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area (SRA). The Project site is located within SRA 25.

Short-Term Analysis

According to the LST methodology, only on-site emissions need to be analyzed. Emissions associated with vendor and worker trips are mobile source emissions that occur off site. The emissions analyzed under the LST methodology are NO₂, CO, PM-10, and PM-2.5. SCAQMD has provided LST lookup tables¹¹ to allow users to readily determine if the daily emissions for proposed construction or operational activities could result in significant localized air quality impacts for projects five acres or

¹⁰ South Coast Air Quality Management District, *Final Localized Significance Threshold Methodology*, Revised July 2008. (Available at <http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>, accessed September 2021.)

¹¹ *Ibid.*

smaller. The LST methodology and tables can be used as a screening tool to determine if dispersion modeling would be necessary.

The SCAQMD’s Fact Sheet for Applying CalEEMod to Localized Significance Thresholds is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.¹² Based on this SCAQMD guidance and the Project’s equipment list during grading (above), the Project will disturb approximately four acres per day during the grading phase. Therefore, the LST for the four-acre site was used.

The LST are estimated using the maximum daily disturbed area (in acres) and the distance of the Project to the nearest sensitive receptors (in meters). The closest sensitive receptors are residential properties located to the north, across Railroad Canyon Road, approximately 105 feet (32 meters) from the Project site. The closest receptor distance on the LST look-up tables is 25 meters. Therefore, a receptor distance of 25 meters (85 feet) was used to ensure a conservative analysis. The results are summarized below.

Table 5 –LST Results for Unmitigated Daily Construction Emissions

Pollutant	Peak Daily Emissions (lb/day)			
	NO _x	CO	PM-10	PM-2.5
LST for 4-acres at 25 meters¹	325	1,677	11	7
Demolition – 2022	25.72	20.59	2.78	1.39
Grading – 2022	42.40	35.55	5.54	3.11
Building Construction – 2022	33.53	34.88	1.73	1.62
Building Construction – 2023	30.88	34.62	1.50	1.41
Building Construction – 2024	28.85	34.45	1.31	1.23
Architectural Coatings – 2023	3.47	4.83	0.19	0.19
Architectural Coatings – 2024	3.25	4.83	0.16	0.16
Paving – 2024	9.52	14.63	0.47	0.43
Maximum²	42.40	39.45	5.54	3.11
Exceeds Threshold?	No	No	No	No

Note: ¹ LST for 4-acre site predicted using Appendix K of SCAQMD LST Methodology

² Maximum emissions are the greater of either demolition, grading, or building construction in 2022 alone, or the sum of building construction and architectural coating in 2023, or the sum of building construction and architectural coating in 2024, or architectural coating and paving in 2024 because these activities overlap. Maximum emissions are rounded and shown in bold.

Emissions from construction of the Project will be below the LST established by SCAQMD for the Project.

Long-Term Analysis

This Project involves the construction of a mixed-use commercial and residential development. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a project, if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing and idling at the site; such as warehouse/transfer facilities. The proposed Project does not include such uses. Therefore, due to the lack of stationary source emissions or on-site mobile equipment, no long-term LST analysis is needed.

¹² <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/caleemod-guidance.pdf?sfvrsn=2>

CO Hot Spots Analysis

A carbon monoxide (CO) “hot spot” is a localized concentration of CO that is above the state or federal 1-hour or 8-hour ambient air quality standards (AAQS). Localized high levels of CO are associated with traffic congestion and idling or slow-moving vehicles.

Based on the information presented below, a CO “hot spot” analysis is not needed to determine whether the addition of Project related traffic will contribute to an exceedance of either the state or federal AAQS for CO emissions in the Project area.

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)¹³ and the Revised 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan).¹⁴ 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 (2003 AQMP Appendix V, p. V-4-32). Considering the region’s unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of the 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 Blvd. and Imperial Highway (Lynwood); Wilshire Blvd. and Veteran Ave. (Westwood); Sunset Blvd. and Highland Ave. (Hollywood); and La Cienega Blvd. and Century Blvd. (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated in the 1992 CO Plan and subsequent 2003 AQMP was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day (2003 AQMP Appendix V, Table 4-7). The Los Angeles County Metropolitan Transportation Authority (MTA)¹⁵ evaluated the Level of Service (LOS) in the vicinity of the Wilshire Blvd./Veteran Ave. intersection and found it to be level E at peak morning traffic and Level F at peak afternoon traffic (MTA, Exhibit 2-5 and 2-6). The hot spot analysis was conducted at intersections subject to extremes in vehicle volumes and vehicle congestion, and did not predict any violation of CO standards. Traffic counts on Railroad Canyon Road in 2019 in the vicinity of the Project site were approximately 34,000 daily trips. Considering a two percent growth rate per year and that Project-related traffic would result in an increase of approximately 3,200 daily trips, the daily traffic volume would be approximately 38,500, which is a much lower volume the traffic volumes studied by SCAQMD. Therefore, it can reasonably be concluded that Project-related traffic would not have daily traffic volumes exceeding those at the intersections modeled in the 2003 AQMP, nor would there be any reason unique to the meteorology to conclude that intersections affected by the Project would yield higher CO concentrations if modeled in detail. Thus, the Project would not result in CO hot spots.

■ Greenhouse Gas Analysis

Greenhouse gases (GHG) are not presented in lbs/day like criteria pollutants; they are typically evaluated on an annual basis using the metric system. Additionally, unlike the criteria pollutants, GHG do not have adopted significance thresholds associated with them at this time. Several agencies, at various levels, have proposed draft GHG significance thresholds for use in CEQA documents. SCAQMD has been working on GHG thresholds for development projects. The most recent draft proposal was in September

¹³ SCAQMD, *2003 Air Quality Management Plan, August 1, 2003*. (Available at <http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp>, accessed September 2021.)

¹⁴ SCAQMD, *Revision to the 1992 Carbon Monoxide Attainment Plan*, September 1994. (Available at SCAQMD.)

¹⁵ Metropolitan Transportation Authority, *2004 Congestion Management Plan for Los Angeles County*, Adopted July 22, 2004. (Available at http://media.metro.net/projects_studies/cmp/images/2004_cmp.pdf, accessed September 2021.)

2010¹⁶ and included significance thresholds for residential, commercial, and mixed-use projects at 3,500, 1,400, and 3,000 metric tonnes per year of carbon dioxide equivalents (MTCO₂E/yr), respectively. Alternatively, a lead agency has the option to use 3,000 MTCO₂E/yr as a threshold for all non-industrial projects. Although both options are recommended by SCAQMD, a lead agency is advised to use only one option and to use it consistently. As such, this threshold is utilized herein to determine if emissions of GHG from this Project will be significant. The SCAQMD significance thresholds also evaluate construction emissions by amortizing them over an expected project life of 30 years.

Short-Term Analysis

Construction-Related Emissions

The CalEEMod model calculates GHG emissions from fuel usage by construction equipment and construction-related activities, like construction worker trips, for the Project. The CalEEMod estimate does not analyze emissions from construction-related electricity or natural gas. Construction-related electricity and natural gas emissions vary based on the amount of electric power used during construction and other unknown factors which make them too speculative to quantify. The CalEEMod output results for construction-related GHG emissions present the GHG emissions estimates for the Project for CO₂, methane (CH₄), nitrous oxide (N₂O), and CO₂E.¹⁷

Table 6 – Project Construction Equipment GHG Emissions

Year	Metric Tons per year (MT/yr)			
	Total CO ₂	Total CH ₄	Total N ₂ O	Total CO ₂ E
2022	652.67	0.07	0.06	671.97
2023	1,512.30	0.18	0.05	1,532.80
2024	51.96	0.01	0.00	52.43
Total	2,216.93	0.26	0.11	2,257.20
			Amortized	75.24

Evaluation of the table above indicates that an estimated 2,257.20 MTCO₂E will occur from Project construction equipment over the course of the estimated construction period. The draft SCAQMD GHG threshold Guidance document released in October 2008¹⁸ recommends that construction emissions be amortized for a project lifetime of 30 years to ensure that GHG reduction measures address construction GHG emissions as part of the operational reduction strategies. Therefore, the total GHG emissions from Project construction were amortized and are included in **Table 8**, below.

Long-Term Analysis

Area Source Emissions

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths (fireplaces). Landscape equipment servicing the Project site create CO₂ resulting from fuel combustion based on the Project's land uses. Consumer products consist of consumer use of solvents and personal care products and architectural coatings consist of an average building square footage to be repainted each year. CalEEMod defaults were utilized with the exception of fireplaces, which were assumed to be absent from the Project. **Table 8** summarizes the Project's area source emissions, which were reported as zero.

¹⁶ [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-main-presentation.pdf?sfvrsn=2)

¹⁷ CO₂E is the sum of CO₂ emissions estimated plus the sum of CH₄ and N₂O emissions estimated multiplied by their respective global warming potential (GWP).

¹⁸ [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-6/ghg-meeting-6-guidance-document-discussion.pdf?sfvrsn=2)

Energy-Related Emissions

CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. Electricity and natural gas used in buildings is typically generated at an off-site power plant which indirectly generates GHG emissions. The default energy usage values used in CalEEMod are based on the CEC sponsored California Commercial End Use Survey and Residential Appliance Saturation Survey studies and reflect 2019 Title 24 improvements (CalEEMod User's Guide, Appendix A). The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project based on the assumptions described previously.

Table 7 – Energy-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ E
Electricity	451.84	0.04	0.00	454.17
Natural Gas	166.78	0.00	0.00	167.77
Total	618.62	0.04	0.00	621.94

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

Mobile Source Emissions

CalEEMod estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data contained in defaults or in the VMT project-specific analysis. The trip generation rate and fleet mix were based on CalEEMod's defaults. As stated above, the trip length data was calculated using CalEEMod default trip rates and Project-specific daily VMT. **Table 8** shows the mobile source emissions from the Project.

Solid Waste Emissions

CalEEMod also calculates the GHG emissions associated with the disposal of solid waste into landfills based on default data contained within the model for waste disposal rates, composition, and the characteristics of landfills throughout the state. A large percentage of this waste will be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted will be disposed of at a landfill. This analysis assumes a solid waste diversion from the landfills consistent with the most recent data provided by the state, 37 percent.¹⁹ The waste diversion rate was evaluated in the model by selecting the mitigation option for solid waste and **Table 8** shows the solid waste emissions from the Project utilizing this waste reduction rate.

Water-Related Energy Usage

Electricity is also indirectly used in water supply, treatment, and distribution, as well as wastewater treatment in Southern California and plays a large role in GHG production.

There are three processes necessary to supply potable water to urban users (i.e., residential, commercial, and industrial): (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, the wastewater is treated and either reused as reclaimed/recycled water or returned to the environment. CalEEMod calculates the GHG emissions from these processes based on default emissions factors and water/wastewater generation rates for a project's location. Default values were used for electricity intensity factor associated with the supply and conveyance of water from its source which assumes that the water is being imported from Northern California. Total water demand was calculated using the Elsinore Valley Municipal Water District's (EVMWD) mixed use water demand rate.²⁰ The percentage of indoor water versus outdoor water was derived from CalEEMod defaults for the proposed land uses. **Table 8** shows the GHG emissions from water-related energy usage for the Project.

¹⁹ CalRecycle, *California's 2019 Per Capita Disposal Rate Estimate*, webpage. Available at: <https://www.calrecycle.ca.gov/lqcentral/goalmeasure/disposalrate/mostrecent>, accessed September 2021.

²⁰ Elsinore Valley Municipal Water District, *2020 Urban Water Management Plan*. Available at <https://www.evmwd.com/home/showdocument?id=2363>, accessed September 2021.

Total Project GHG Emissions

As shown on **Table 8 – Total Project-Related GHG Emissions**, using all the emissions quantified above, the total GHG emissions generated from the Project is approximately 2,967.12 MTCO₂E/yr which includes construction-related emissions amortized over a typical project life of 30 years.

Table 8 – Total Project-Related GHG Emissions

Source	Metric Tons per year (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ E
Amortized Construction	--	--	--	75.24
Area	3.17	0.00	0.00	3.25
Energy	618.62	0.04	0.00	621.94
Mobile	2,113.14	0.12	0.11	2,148.75
Solid Waste	27.47	1.62	0.00	68.06
Water	39.09	0.33	0.01	49.88
Total	2,801.49	2.11	0.12	2,967.12

Note: Emissions reported as zero are rounded and not necessarily equal to zero.

The total GHG emissions from the Project do not exceed the SCAQMD interim threshold of level of 3,000 MTCO₂E/yr for non-industrial projects.

■ Conclusion

The conclusion of this analysis indicates that construction of the proposed Project will not exceed criteria pollutant thresholds established by SCAQMD on a regional or localized level without mitigation required. Additionally, the Project will not contribute to creation of a CO hotspot. The Project's GHG emissions will not exceed the SCAQMD interim threshold of 3,000 MTCO₂E/yr. Should you have any questions, please contact me at (951) 686-1070.

CALEEMOD OUTPUT FILES

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Summer

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

Canyon Lake Specific Plan - Construction Only

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per Project schedule.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment -

Trips and VMT - Two (2) daily water trips added to Demolition, Grading, and Paving activities per Rule 403

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Summer

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

Demolition - Per Project assumptions

Grading - Assumed 3,000 cy export per day

Vehicle Trips - Operation modeled separately.

Woodstoves - Operation modeled separately.

Energy Use - Operation modeled separately.

Water And Wastewater - Operation modeled separately.

Solid Waste - Operation modeled separately.

Construction Off-road Equipment Mitigation - Per Rule 403

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	277.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	5.61	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	4.09	0.00
tblEnergyUse	T24NG	8,352.17	0.00
tblEnergyUse	T24NG	3.43	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Summer

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

tblEnergyUse	T24NG	1.90	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	0.00
tblFireplaces	NumberWood	9.40	0.00
tblGrading	MaterialExported	0.00	90,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	86.48	0.00
tblSolidWaste	SolidWasteGenerationRate	95.79	0.00
tblSolidWaste	SolidWasteGenerationRate	32.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Summer

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

tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblWater	IndoorWaterUseRate	12,248,956.82	0.00
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	0.00
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Construction Only - Riverside-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					
2022	5.3691	90.4387	52.2422	0.2909	16.4392	2.3660	18.8052	5.5885	2.1972	7.7857	0.0000	30,307.45 14	30,307.45 14	2.5856	3.6353	31,455.41 65
2023	14.9454	39.4897	58.2541	0.1334	6.0318	1.7450	7.7768	1.6178	1.6512	3.2691	0.0000	13,193.42 75	13,193.42 75	1.5101	0.4520	13,365.87 84
2024	14.5850	37.1246	56.9492	0.1316	6.0318	1.5340	7.5658	1.6178	1.4509	3.0688	0.0000	13,010.80 73	13,010.80 73	1.4912	0.4384	13,178.74 19
Maximum	14.9454	90.4387	58.2541	0.2909	16.4392	2.3660	18.8052	5.5885	2.1972	7.7857	0.0000	30,307.45 14	30,307.45 14	2.5856	3.6353	31,455.41 65

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.3691	90.4387	52.2422	0.2909	10.5933	2.3660	12.9593	3.3247	2.1972	5.5219	0.0000	30,307.45 14	30,307.45 14	2.5856	3.6353	31,455.41 65
2023	14.9454	39.4897	58.2541	0.1334	6.0318	1.7450	7.7768	1.6178	1.6512	3.2691	0.0000	13,193.42 75	13,193.42 75	1.5101	0.4520	13,365.87 84
2024	14.5850	37.1246	56.9492	0.1316	6.0318	1.5340	7.5658	1.6178	1.4509	3.0688	0.0000	13,010.80 73	13,010.80 73	1.4912	0.4384	13,178.74 19
Maximum	14.9454	90.4387	58.2541	0.2909	10.5933	2.3660	12.9593	3.3247	2.1972	5.5219	0.0000	30,307.45 14	30,307.45 14	2.5856	3.6353	31,455.41 65

Canyon Lake Specific Plan - Construction Only - Riverside-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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.7235	0.1788	15.5247	8.2000e-004	0.0000	0.0860	0.0860	0.0000	0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.7235	0.1788	15.5247	8.2000e-004	0.0000	0.0860	0.0860	0.0000	0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

Canyon Lake Specific Plan - Construction Only - Riverside-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	9/1/2022	9/28/2022	5	20	
2	Grading	Grading	9/29/2022	11/9/2022	5	30	
3	Building Construction	Building Construction	11/10/2022	1/3/2024	5	300	
4	Architectural Coating	Architectural Coating	1/10/2023	1/31/2024	5	277	
5	Paving	Paving	1/4/2024	1/31/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 11.58

Residential Indoor: 380,700; Residential Outdoor: 126,900; Non-Residential Indoor: 201,000; Non-Residential Outdoor: 67,000; Striped Parking Area: 30,274 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Summer

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

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	363.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	11,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	390.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9469	0.0000	3.9469	0.5976	0.0000	0.5976			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	3.9469	1.2427	5.1895	0.5976	1.1553	1.7529		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

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	0.0574	2.3180	0.5155	0.0104	0.3177	0.0269	0.3446	0.0871	0.0258	0.1129		1,113.233 8	1,113.233 8	0.0151	0.1754	1,165.869 0
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0591	0.0383	0.5972	1.5200e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		154.0341	154.0341	3.8400e-003	3.8100e-003	155.2664
Total	0.1197	2.4409	1.1420	0.0123	0.4981	0.0290	0.5272	0.1353	0.0277	0.1630		1,305.856 9	1,305.856 9	0.0193	0.1849	1,361.440 0

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5393	0.0000	1.5393	0.2331	0.0000	0.2331			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	1.5393	1.2427	2.7819	0.2331	1.1553	1.3883	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0

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	0.0574	2.3180	0.5155	0.0104	0.3177	0.0269	0.3446	0.0871	0.0258	0.1129		1,113.233 8	1,113.233 8	0.0151	0.1754	1,165.869 0
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0591	0.0383	0.5972	1.5200e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		154.0341	154.0341	3.8400e-003	3.8100e-003	155.2664
Total	0.1197	2.4409	1.1420	0.0123	0.4981	0.0290	0.5272	0.1353	0.0277	0.1630		1,305.856 9	1,305.856 9	0.0193	0.1849	1,361.440 0

Canyon Lake Specific Plan - Construction Only - Riverside-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 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5835	0.0000	9.5835	3.7113	0.0000	3.7113			0.0000			0.0000
Off-Road	4.0297	42.3974	35.5518	0.0724		1.8067	1.8067		1.6622	1.6622		7,011.441 1	7,011.441 1	2.2676		7,068.132 1
Total	4.0297	42.3974	35.5518	0.0724	9.5835	1.8067	11.3902	3.7113	1.6622	5.3735		7,011.441 1	7,011.441 1	2.2676		7,068.132 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1858	47.8929	10.6503	0.2156	6.5635	0.5567	7.1202	1.7995	0.5326	2.3320		23,000.69 77	23,000.69 77	0.3111	3.6233	24,088.20 25
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0985	0.0638	0.9953	2.5400e-003	0.2794	1.3900e-003	0.2808	0.0741	1.2800e-003	0.0754		256.7235	256.7235	6.4000e-003	6.3600e-003	258.7773
Total	1.2876	48.0413	11.6749	0.2185	6.8557	0.5593	7.4150	1.8773	0.5350	2.4123		23,296.01 03	23,296.01 03	0.3179	3.6353	24,387.28 44

Canyon Lake Specific Plan - Construction Only - Riverside-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 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7376	0.0000	3.7376	1.4474	0.0000	1.4474			0.0000			0.0000
Off-Road	4.0297	42.3974	35.5518	0.0724		1.8067	1.8067		1.6622	1.6622	0.0000	7,011.441 1	7,011.441 1	2.2676		7,068.132 1
Total	4.0297	42.3974	35.5518	0.0724	3.7376	1.8067	5.5443	1.4474	1.6622	3.1096	0.0000	7,011.441 1	7,011.441 1	2.2676		7,068.132 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1858	47.8929	10.6503	0.2156	6.5635	0.5567	7.1202	1.7995	0.5326	2.3320		23,000.69 77	23,000.69 77	0.3111	3.6233	24,088.20 25
Vendor	3.2500e-003	0.0846	0.0294	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.5891	38.5891	4.1000e-004	5.7200e-003	40.3046
Worker	0.0985	0.0638	0.9953	2.5400e-003	0.2794	1.3900e-003	0.2808	0.0741	1.2800e-003	0.0754		256.7235	256.7235	6.4000e-003	6.3600e-003	258.7773
Total	1.2876	48.0413	11.6749	0.2185	6.8557	0.5593	7.4150	1.8773	0.5350	2.4123		23,296.01 03	23,296.01 03	0.3179	3.6353	24,387.28 44

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576

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	0.2034	5.2858	1.8379	0.0228	0.8006	0.0762	0.8769	0.2305	0.0729	0.3034		2,411.8167	2,411.8167	0.0255	0.3577	2,519.0381
Worker	1.5364	0.9956	15.5259	0.0396	4.3593	0.0217	4.3810	1.1561	0.0200	1.1761		4,004.8866	4,004.8866	0.0998	0.0991	4,036.9260
Total	1.7398	6.2814	17.3638	0.0624	5.1599	0.0979	5.2578	1.3866	0.0929	1.4795		6,416.7033	6,416.7033	0.1254	0.4568	6,555.9640

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576

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	0.2034	5.2858	1.8379	0.0228	0.8006	0.0762	0.8769	0.2305	0.0729	0.3034		2,411.8167	2,411.8167	0.0255	0.3577	2,519.0381
Worker	1.5364	0.9956	15.5259	0.0396	4.3593	0.0217	4.3810	1.1561	0.0200	1.1761		4,004.8866	4,004.8866	0.0998	0.0991	4,036.9260
Total	1.7398	6.2814	17.3638	0.0624	5.1599	0.0979	5.2578	1.3866	0.0929	1.4795		6,416.7033	6,416.7033	0.1254	0.4568	6,555.9640

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1409	4.0838	1.6815	0.0218	0.8006	0.0356	0.8362	0.2305	0.0340	0.2646		2,315.8875	2,315.8875	0.0236	0.3422	2,418.4591
Worker	1.4240	0.8799	14.2690	0.0383	4.3593	0.0204	4.3797	1.1561	0.0188	1.1749		3,875.5873	3,875.5873	0.0896	0.0915	3,905.0924
Total	1.5649	4.9637	15.9505	0.0602	5.1599	0.0560	5.2159	1.3866	0.0528	1.4394		6,191.4748	6,191.4748	0.1132	0.4337	6,323.5515

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1409	4.0838	1.6815	0.0218	0.8006	0.0356	0.8362	0.2305	0.0340	0.2646		2,315.8875	2,315.8875	0.0236	0.3422	2,418.4591
Worker	1.4240	0.8799	14.2690	0.0383	4.3593	0.0204	4.3797	1.1561	0.0188	1.1749		3,875.5873	3,875.5873	0.0896	0.0915	3,905.0924
Total	1.5649	4.9637	15.9505	0.0602	5.1599	0.0560	5.2159	1.3866	0.0528	1.4394		6,191.4748	6,191.4748	0.1132	0.4337	6,323.5515

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2024

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1387	4.0842	1.6623	0.0215	0.8006	0.0353	0.8359	0.2305	0.0338	0.2643		2,280.1947	2,280.1947	0.0245	0.3364	2,381.0641
Worker	1.3271	0.7837	13.3383	0.0371	4.3593	0.0195	4.3787	1.1561	0.0179	1.1740		3,752.2165	3,752.2165	0.0811	0.0850	3,779.5762
Total	1.4657	4.8679	15.0006	0.0586	5.1599	0.0548	5.2147	1.3866	0.0517	1.4383		6,032.4112	6,032.4112	0.1056	0.4214	6,160.6403

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1387	4.0842	1.6623	0.0215	0.8006	0.0353	0.8359	0.2305	0.0338	0.2643		2,280.1947	2,280.1947	0.0245	0.3364	2,381.0641
Worker	1.3271	0.7837	13.3383	0.0371	4.3593	0.0195	4.3787	1.1561	0.0179	1.1740		3,752.2165	3,752.2165	0.0811	0.0850	3,779.5762
Total	1.4657	4.8679	15.0006	0.0586	5.1599	0.0548	5.2147	1.3866	0.0517	1.4383		6,032.4112	6,032.4112	0.1056	0.4214	6,160.6403

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507
Total	9.7489	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2848	0.1760	2.8538	7.6700e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		775.1175	775.1175	0.0179	0.0183	781.0185
Total	0.2848	0.1760	2.8538	7.6700e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		775.1175	775.1175	0.0179	0.0183	781.0185

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507
Total	9.7489	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2848	0.1760	2.8538	7.6700e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		775.1175	775.1175	0.0179	0.0183	781.0185
Total	0.2848	0.1760	2.8538	7.6700e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		775.1175	775.1175	0.0179	0.0183	781.0185

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	9.7198	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2654	0.1567	2.6677	7.4200e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		750.4433	750.4433	0.0162	0.0170	755.9152
Total	0.2654	0.1567	2.6677	7.4200e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		750.4433	750.4433	0.0162	0.0170	755.9152

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	9.7198	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2654	0.1567	2.6677	7.4200e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		750.4433	750.4433	0.0162	0.0170	755.9152
Total	0.2654	0.1567	2.6677	7.4200e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		750.4433	750.4433	0.0162	0.0170	755.9152

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3191	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0654	0.0266	3.4000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		36.4831	36.4831	3.9000e-004	5.3800e-003	38.0970
Worker	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
Total	0.0533	0.0955	0.5396	1.7700e-003	0.1805	1.3200e-003	0.1818	0.0482	1.2300e-003	0.0494		180.7991	180.7991	3.5100e-003	8.6500e-003	183.4653

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3191	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2200e-003	0.0654	0.0266	3.4000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		36.4831	36.4831	3.9000e-004	5.3800e-003	38.0970
Worker	0.0510	0.0301	0.5130	1.4300e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		144.3160	144.3160	3.1200e-003	3.2700e-003	145.3683
Total	0.0533	0.0955	0.5396	1.7700e-003	0.1805	1.3200e-003	0.1818	0.0482	1.2300e-003	0.0494		180.7991	180.7991	3.5100e-003	8.6500e-003	183.4653

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Canyon Lake Specific Plan - Construction Only - Riverside-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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Enclosed Parking Structure	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
General Office Building	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Parking Lot	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Regional Shopping Center	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Canyon Lake Specific Plan - Construction Only - Riverside-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					
Natural Gas 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
Natural Gas 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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Enclosed Parking Structure	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
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	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

Canyon Lake Specific Plan - Construction Only - Riverside-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
Enclosed Parking Structure	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
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	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

Canyon Lake Specific Plan - Construction Only - Riverside-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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Unmitigated	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4681	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860		27.9730	27.9730	0.0269		28.6458
Total	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4681	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860		27.9730	27.9730	0.0269		28.6458
Total	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Construction Only - Riverside-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

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Winter

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

Canyon Lake Specific Plan - Construction Only

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per Project schedule.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment -

Trips and VMT - Two (2) daily water trips added to Demolition, Grading, and Paving activities per Rule 403

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Winter

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

Demolition - Per Project assumptions

Grading - Assumed 3,000 cy export per day

Vehicle Trips - Operation modeled separately.

Woodstoves - Operation modeled separately.

Energy Use - Operation modeled separately.

Water And Wastewater - Operation modeled separately.

Solid Waste - Operation modeled separately.

Construction Off-road Equipment Mitigation - Per Rule 403

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	277.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	5.61	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	4.09	0.00
tblEnergyUse	T24NG	8,352.17	0.00
tblEnergyUse	T24NG	3.43	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Winter

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

tblEnergyUse	T24NG	1.90	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	0.00
tblFireplaces	NumberWood	9.40	0.00
tblGrading	MaterialExported	0.00	90,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	86.48	0.00
tblSolidWaste	SolidWasteGenerationRate	95.79	0.00
tblSolidWaste	SolidWasteGenerationRate	32.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Winter

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

tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblWater	IndoorWaterUseRate	12,248,956.82	0.00
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	0.00
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Construction Only - Riverside-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					
2022	5.2592	93.0687	49.3696	0.2908	16.4392	2.3667	18.8060	5.5885	2.1979	7.7865	0.0000	30,300.86 84	30,300.86 84	2.5828	3.6383	31,449.64 48
2023	14.8278	39.7766	55.0919	0.1292	6.0318	1.7452	7.7769	1.6178	1.6513	3.2692	0.0000	12,762.45 19	12,762.45 19	1.5092	0.4557	12,935.98 90
2024	14.4793	37.4069	54.0030	0.1275	6.0318	1.5342	7.5659	1.6178	1.4510	3.0689	0.0000	12,594.46 25	12,594.46 25	1.4906	0.4419	12,763.41 80
Maximum	14.8278	93.0687	55.0919	0.2908	16.4392	2.3667	18.8060	5.5885	2.1979	7.7865	0.0000	30,300.86 84	30,300.86 84	2.5828	3.6383	31,449.64 48

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.2592	93.0687	49.3696	0.2908	10.5933	2.3667	12.9600	3.3247	2.1979	5.5226	0.0000	30,300.86 84	30,300.86 84	2.5828	3.6383	31,449.64 48
2023	14.8278	39.7766	55.0919	0.1292	6.0318	1.7452	7.7769	1.6178	1.6513	3.2692	0.0000	12,762.45 19	12,762.45 19	1.5092	0.4557	12,935.98 90
2024	14.4793	37.4069	54.0030	0.1275	6.0318	1.5342	7.5659	1.6178	1.4510	3.0689	0.0000	12,594.46 25	12,594.46 25	1.4906	0.4419	12,763.41 80
Maximum	14.8278	93.0687	55.0919	0.2908	10.5933	2.3667	12.9600	3.3247	2.1979	5.5226	0.0000	30,300.86 84	30,300.86 84	2.5828	3.6383	31,449.64 48

Canyon Lake Specific Plan - Construction Only - Riverside-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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.7235	0.1788	15.5247	8.2000e-004	0.0000	0.0860	0.0860	0.0000	0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.7235	0.1788	15.5247	8.2000e-004	0.0000	0.0860	0.0860	0.0000	0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

Canyon Lake Specific Plan - Construction Only - Riverside-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	9/1/2022	9/28/2022	5	20	
2	Grading	Grading	9/29/2022	11/9/2022	5	30	
3	Building Construction	Building Construction	11/10/2022	1/3/2024	5	300	
4	Architectural Coating	Architectural Coating	1/10/2023	1/31/2024	5	277	
5	Paving	Paving	1/4/2024	1/31/2024	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 11.58

Residential Indoor: 380,700; Residential Outdoor: 126,900; Non-Residential Indoor: 201,000; Non-Residential Outdoor: 67,000; Striped Parking Area: 30,274 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Winter

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

Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48
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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	363.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	11,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	390.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9469	0.0000	3.9469	0.5976	0.0000	0.5976			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	3.9469	1.2427	5.1895	0.5976	1.1553	1.7529		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

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	0.0547	2.4450	0.5296	0.0104	0.3177	0.0270	0.3447	0.0871	0.0258	0.1129		1,114.083 6	1,114.083 6	0.0149	0.1755	1,166.755 9
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0552	0.0398	0.4840	1.3800e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		139.5236	139.5236	3.8100e-003	3.9000e-003	140.7822
Total	0.1130	2.5738	1.0441	0.0122	0.4981	0.0290	0.5272	0.1353	0.0278	0.1630		1,292.238 4	1,292.238 4	0.0191	0.1851	1,347.887 8

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5393	0.0000	1.5393	0.2331	0.0000	0.2331			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	1.5393	1.2427	2.7819	0.2331	1.1553	1.3883	0.0000	3,746.781 2	3,746.781 2	1.0524		3,773.092 0

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	0.0547	2.4450	0.5296	0.0104	0.3177	0.0270	0.3447	0.0871	0.0258	0.1129		1,114.083 6	1,114.083 6	0.0149	0.1755	1,166.755 9
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0552	0.0398	0.4840	1.3800e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		139.5236	139.5236	3.8100e-003	3.9000e-003	140.7822
Total	0.1130	2.5738	1.0441	0.0122	0.4981	0.0290	0.5272	0.1353	0.0278	0.1630		1,292.238 4	1,292.238 4	0.0191	0.1851	1,347.887 8

Canyon Lake Specific Plan - Construction Only - Riverside-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 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.5835	0.0000	9.5835	3.7113	0.0000	3.7113			0.0000			0.0000
Off-Road	4.0297	42.3974	35.5518	0.0724		1.8067	1.8067		1.6622	1.6622		7,011.441 1	7,011.441 1	2.2676		7,068.132 1
Total	4.0297	42.3974	35.5518	0.0724	9.5835	1.8067	11.3902	3.7113	1.6622	5.3735		7,011.441 1	7,011.441 1	2.2676		7,068.132 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1294	50.5160	10.9426	0.2158	6.5635	0.5574	7.1209	1.7995	0.5333	2.3327			23,018.25 68	0.3084	3.6260	24,106.52 59
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003			38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0920	0.0663	0.8066	2.3000e-003	0.2794	1.3900e-003	0.2808	0.0741	1.2800e-003	0.0754			232.5394	6.3600e-003	6.5100e-003	234.6370
Total	1.2245	50.6713	11.7797	0.2184	6.8557	0.5600	7.4158	1.8773	0.5358	2.4130			23,289.42 74	0.3151	3.6383	24,381.51 26

Canyon Lake Specific Plan - Construction Only - Riverside-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 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.7376	0.0000	3.7376	1.4474	0.0000	1.4474			0.0000			0.0000
Off-Road	4.0297	42.3974	35.5518	0.0724		1.8067	1.8067		1.6622	1.6622	0.0000	7,011.441 1	7,011.441 1	2.2676		7,068.132 1
Total	4.0297	42.3974	35.5518	0.0724	3.7376	1.8067	5.5443	1.4474	1.6622	3.1096	0.0000	7,011.441 1	7,011.441 1	2.2676		7,068.132 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1294	50.5160	10.9426	0.2158	6.5635	0.5574	7.1209	1.7995	0.5333	2.3327		23,018.25 68	23,018.25 68	0.3084	3.6260	24,106.52 59
Vendor	3.1200e-003	0.0891	0.0305	3.6000e-004	0.0128	1.2200e-003	0.0140	3.6900e-003	1.1700e-003	4.8600e-003		38.6312	38.6312	4.0000e-004	5.7300e-003	40.3497
Worker	0.0920	0.0663	0.8066	2.3000e-003	0.2794	1.3900e-003	0.2808	0.0741	1.2800e-003	0.0754		232.5394	232.5394	6.3600e-003	6.5100e-003	234.6370
Total	1.2245	50.6713	11.7797	0.2184	6.8557	0.5600	7.4158	1.8773	0.5358	2.4130		23,289.42 74	23,289.42 74	0.3151	3.6383	24,381.51 26

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576
Total	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245		5,474.3040	5,474.3040	1.3421		5,507.8576

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	0.1947	5.5686	1.9085	0.0228	0.8006	0.0764	0.8771	0.2305	0.0731	0.3036		2,414.4471	2,414.4471	0.0251	0.3583	2,521.8586
Worker	1.4353	1.0335	12.5827	0.0359	4.3593	0.0217	4.3810	1.1561	0.0200	1.1761		3,627.6142	3,627.6142	0.0992	0.1015	3,660.3371
Total	1.6300	6.6021	14.4912	0.0587	5.1599	0.0981	5.2580	1.3866	0.0931	1.4797		6,042.0613	6,042.0613	0.1243	0.4598	6,182.1957

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576
Total	3.6293	33.5341	34.8784	0.0576		1.7291	1.7291		1.6245	1.6245	0.0000	5,474.3040	5,474.3040	1.3421		5,507.8576

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	0.1947	5.5686	1.9085	0.0228	0.8006	0.0764	0.8771	0.2305	0.0731	0.3036		2,414.4471	2,414.4471	0.0251	0.3583	2,521.8586
Worker	1.4353	1.0335	12.5827	0.0359	4.3593	0.0217	4.3810	1.1561	0.0200	1.1761		3,627.6142	3,627.6142	0.0992	0.1015	3,660.3371
Total	1.6300	6.6021	14.4912	0.0587	5.1599	0.0981	5.2580	1.3866	0.0931	1.4797		6,042.0613	6,042.0613	0.1243	0.4598	6,182.1957

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058		5,476.3070	5,476.3070	1.3340		5,509.6577

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1305	4.3310	1.7381	0.0219	0.8006	0.0357	0.8363	0.2305	0.0342	0.2647		2,321.6350	2,321.6350	0.0232	0.3434	2,424.5345
Worker	1.3347	0.9129	11.5867	0.0347	4.3593	0.0204	4.3797	1.1561	0.0188	1.1749		3,511.6514	3,511.6514	0.0893	0.0936	3,541.7884
Total	1.4651	5.2439	13.3248	0.0566	5.1599	0.0561	5.2160	1.3866	0.0529	1.4395		5,833.2864	5,833.2864	0.1125	0.4370	5,966.3230

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577
Total	3.3469	30.8754	34.6201	0.0577		1.4962	1.4962		1.4058	1.4058	0.0000	5,476.3070	5,476.3070	1.3340		5,509.6577

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1305	4.3310	1.7381	0.0219	0.8006	0.0357	0.8363	0.2305	0.0342	0.2647		2,321.6350	2,321.6350	0.0232	0.3434	2,424.5345
Worker	1.3347	0.9129	11.5867	0.0347	4.3593	0.0204	4.3797	1.1561	0.0188	1.1749		3,511.6514	3,511.6514	0.0893	0.0936	3,541.7884
Total	1.4651	5.2439	13.3248	0.0566	5.1599	0.0561	5.2160	1.3866	0.0529	1.4395		5,833.2864	5,833.2864	0.1125	0.4370	5,966.3230

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2024

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1283	4.3316	1.7187	0.0216	0.8006	0.0355	0.8361	0.2305	0.0339	0.2644		2,285.8932	2,285.8932	0.0240	0.3376	2,387.0826
Worker	1.2476	0.8128	10.8361	0.0336	4.3593	0.0195	4.3787	1.1561	0.0179	1.1740		3,400.5137	3,400.5137	0.0810	0.0870	3,428.4575
Total	1.3759	5.1444	12.5548	0.0552	5.1599	0.0549	5.2148	1.3866	0.0518	1.4384		5,686.4069	5,686.4069	0.1050	0.4245	5,815.5401

Canyon Lake Specific Plan - Construction Only - Riverside-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 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017
Total	3.1340	28.8498	34.4540	0.0577		1.3129	1.3129		1.2332	1.2332	0.0000	5,477.4247	5,477.4247	1.3271		5,510.6017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1283	4.3316	1.7187	0.0216	0.8006	0.0355	0.8361	0.2305	0.0339	0.2644		2,285.8932	2,285.8932	0.0240	0.3376	2,387.0826
Worker	1.2476	0.8128	10.8361	0.0336	4.3593	0.0195	4.3787	1.1561	0.0179	1.1740		3,400.5137	3,400.5137	0.0810	0.0870	3,428.4575
Total	1.3759	5.1444	12.5548	0.0552	5.1599	0.0549	5.2148	1.3866	0.0518	1.4384		5,686.4069	5,686.4069	0.1050	0.4245	5,815.5401

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507
Total	9.7489	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889		750.5281	750.5281	0.0449		751.6507

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2669	0.1826	2.3173	6.9500e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		702.3303	702.3303	0.0179	0.0187	708.3577
Total	0.2669	0.1826	2.3173	6.9500e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		702.3303	702.3303	0.0179	0.0187	708.3577

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.5111	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507
Total	9.7489	3.4747	4.8296	7.9200e-003		0.1889	0.1889		0.1889	0.1889	0.0000	750.5281	750.5281	0.0449		751.6507

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2669	0.1826	2.3173	6.9500e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		702.3303	702.3303	0.0179	0.0187	708.3577
Total	0.2669	0.1826	2.3173	6.9500e-003	0.8719	4.0800e-003	0.8759	0.2312	3.7500e-003	0.2350		702.3303	702.3303	0.0179	0.0187	708.3577

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847
Total	9.7198	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624		750.5281	750.5281	0.0423		751.5847

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2495	0.1626	2.1672	6.7300e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		680.1027	680.1027	0.0162	0.0174	685.6915
Total	0.2495	0.1626	2.1672	6.7300e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		680.1027	680.1027	0.0162	0.0174	685.6915

Canyon Lake Specific Plan - Construction Only - Riverside-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 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	9.2378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4820	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847
Total	9.7198	3.2501	4.8270	7.9200e-003		0.1624	0.1624		0.1624	0.1624	0.0000	750.5281	750.5281	0.0423		751.5847

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2495	0.1626	2.1672	6.7300e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		680.1027	680.1027	0.0162	0.0174	685.6915
Total	0.2495	0.1626	2.1672	6.7300e-003	0.8719	3.8900e-003	0.8758	0.2312	3.5800e-003	0.2348		680.1027	680.1027	0.0162	0.0174	685.6915

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3191	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0693	0.0275	3.4000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		36.5743	36.5743	3.8000e-004	5.4000e-003	38.1933
Worker	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638
Total	0.0500	0.1006	0.4443	1.6300e-003	0.1805	1.3200e-003	0.1818	0.0482	1.2300e-003	0.0494		167.3633	167.3633	3.5000e-003	8.7500e-003	170.0571

Canyon Lake Specific Plan - Construction Only - Riverside-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 - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	1.3310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.3191	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0693	0.0275	3.4000e-004	0.0128	5.7000e-004	0.0134	3.6900e-003	5.4000e-004	4.2300e-003		36.5743	36.5743	3.8000e-004	5.4000e-003	38.1933
Worker	0.0480	0.0313	0.4168	1.2900e-003	0.1677	7.5000e-004	0.1684	0.0445	6.9000e-004	0.0452		130.7890	130.7890	3.1200e-003	3.3500e-003	131.8638
Total	0.0500	0.1006	0.4443	1.6300e-003	0.1805	1.3200e-003	0.1818	0.0482	1.2300e-003	0.0494		167.3633	167.3633	3.5000e-003	8.7500e-003	170.0571

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Canyon Lake Specific Plan - Construction Only - Riverside-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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Enclosed Parking Structure	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
General Office Building	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Parking Lot	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189
Regional Shopping Center	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Canyon Lake Specific Plan - Construction Only - Riverside-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					
Natural Gas 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
Natural Gas 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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Enclosed Parking Structure	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
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	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

Canyon Lake Specific Plan - Construction Only - Riverside-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
Enclosed Parking Structure	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
General Office Building	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	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

Canyon Lake Specific Plan - Construction Only - Riverside-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	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458
Unmitigated	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4681	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860		27.9730	27.9730	0.0269		28.6458
Total	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4681	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860		27.9730	27.9730	0.0269		28.6458
Total	7.7235	0.1788	15.5247	8.2000e-004		0.0860	0.0860		0.0860	0.0860	0.0000	27.9730	27.9730	0.0269	0.0000	28.6458

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Construction Only - Riverside-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

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

Canyon Lake Specific Plan - Construction Only

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

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

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Per Project schedule.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment - Per Project assumptions

Off-road Equipment -

Trips and VMT - Two (2) daily water trips added to Demolition, Grading, and Paving activities per Rule 403

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

Demolition - Per Project assumptions

Grading - Assumed 3,000 cy export per day

Vehicle Trips - Operation modeled separately.

Woodstoves - Operation modeled separately.

Energy Use - Operation modeled separately.

Water And Wastewater - Operation modeled separately.

Solid Waste - Operation modeled separately.

Construction Off-road Equipment Mitigation - Per Rule 403

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	277.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	3.66	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	5.61	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	2.79	0.00
tblEnergyUse	NT24E	2.44	0.00
tblEnergyUse	NT24NG	6,030.00	0.00
tblEnergyUse	NT24NG	0.30	0.00
tblEnergyUse	T24E	164.47	0.00
tblEnergyUse	T24E	3.50	0.00
tblEnergyUse	T24E	2.74	0.00
tblEnergyUse	T24E	4.09	0.00
tblEnergyUse	T24NG	8,352.17	0.00
tblEnergyUse	T24NG	3.43	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

tblEnergyUse	T24NG	1.90	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	0.00
tblFireplaces	NumberWood	9.40	0.00
tblGrading	MaterialExported	0.00	90,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	86.48	0.00
tblSolidWaste	SolidWasteGenerationRate	95.79	0.00
tblSolidWaste	SolidWasteGenerationRate	32.55	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	46.12	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	0.70	0.00

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

tblVehicleTrips	SU_TR	21.10	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	37.75	0.00
tblWater	IndoorWaterUseRate	12,248,956.82	0.00
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	0.00
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Construction Only - Riverside-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					
2022	0.2028	2.4214	1.8499	7.0400e-003	0.3834	0.0820	0.4654	0.1160	0.0766	0.1926	0.0000	652.6749	652.6749	0.0695	0.0589	671.9689
2023	1.8874	5.1579	7.2335	0.0169	0.7688	0.2263	0.9951	0.2065	0.2141	0.4206	0.0000	1,512.2972	1,512.2972	0.1779	0.0539	1,532.8007
2024	0.1448	0.1865	0.3040	5.9000e-004	0.0193	8.6600e-003	0.0279	5.1400e-003	8.1600e-003	0.0133	0.0000	51.9567	51.9567	9.0700e-003	8.4000e-004	52.4349
Maximum	1.8874	5.1579	7.2335	0.0169	0.7688	0.2263	0.9951	0.2065	0.2141	0.4206	0.0000	1,512.2972	1,512.2972	0.1779	0.0589	1,532.8007

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2028	2.4214	1.8499	7.0400e-003	0.2716	0.0820	0.3536	0.0784	0.0766	0.1550	0.0000	652.6746	652.6746	0.0695	0.0589	671.9686
2023	1.8874	5.1579	7.2334	0.0169	0.7688	0.2263	0.9951	0.2065	0.2141	0.4206	0.0000	1,512.2963	1,512.2963	0.1779	0.0539	1,532.7998
2024	0.1448	0.1865	0.3040	5.9000e-004	0.0193	8.6600e-003	0.0279	5.1400e-003	8.1600e-003	0.0133	0.0000	51.9566	51.9566	9.0700e-003	8.4000e-004	52.4348
Maximum	1.8874	5.1579	7.2334	0.0169	0.7688	0.2263	0.9951	0.2065	0.2141	0.4206	0.0000	1,512.2963	1,512.2963	0.1779	0.0589	1,532.7998

Canyon Lake Specific Plan - Construction Only - Riverside-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
Percent Reduction	0.00	0.00	0.00	0.00	9.54	0.00	7.51	11.47	0.00	6.00	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)
1	9-1-2022	11-30-2022	2.1227	2.1227
2	12-1-2022	2-28-2023	1.6092	1.6092
3	3-1-2023	5-31-2023	1.7905	1.7905
4	6-1-2023	8-31-2023	1.7886	1.7886
5	9-1-2023	11-30-2023	1.7728	1.7728
6	12-1-2023	2-29-2024	0.9139	0.9139
		Highest	2.1227	2.1227

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Area	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3826	0.0224	1.9406	1.0000e-004	0.0000	0.0108	0.0108	0.0000	0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.3826	0.0224	1.9406	1.0000e-004	0.0000	0.0108	0.0108	0.0000	0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484

	ROG	NOx	CO	SO2	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	9/1/2022	9/28/2022	5	20	
2	Grading	Grading	9/29/2022	11/9/2022	5	30	
3	Building Construction	Building Construction	11/10/2022	1/3/2024	5	300	

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

4	Architectural Coating	Architectural Coating	1/10/2023	1/31/2024	5	277
5	Paving	Paving	1/4/2024	1/31/2024	5	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 11.58

Residential Indoor: 380,700; Residential Outdoor: 126,900; Non-Residential Indoor: 201,000; Non-Residential Outdoor: 67,000; Striped Parking Area: 30,274 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Excavators	4	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	6	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	8.00	78	0.48
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

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	363.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	25.00	2.00	11,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	390.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	78.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0395	0.0000	0.0395	5.9800e-003	0.0000	5.9800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0395	0.0124	0.0519	5.9800e-003	0.0116	0.0175	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0244	5.2100e-003	1.0000e-004	3.1300e-003	2.7000e-004	3.4000e-003	8.6000e-004	2.6000e-004	1.1200e-003	0.0000	10.1023	10.1023	1.4000e-004	1.5900e-003	10.5800
Vendor	3.0000e-005	8.9000e-004	3.0000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3502	0.3502	0.0000	5.0000e-005	0.3658
Worker	5.2000e-004	4.1000e-004	5.1000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2953	1.2953	3.0000e-005	4.0000e-005	1.3069
Total	1.1100e-003	0.0257	0.0106	1.1000e-004	4.9100e-003	2.9000e-004	5.2000e-003	1.3400e-003	2.8000e-004	1.6200e-003	0.0000	11.7479	11.7479	1.7000e-004	1.6800e-003	12.2527

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					0.0154	0.0000	0.0154	2.3300e-003	0.0000	2.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0154	0.0124	0.0278	2.3300e-003	0.0116	0.0139	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0244	5.2100e-003	1.0000e-004	3.1300e-003	2.7000e-004	3.4000e-003	8.6000e-004	2.6000e-004	1.1200e-003	0.0000	10.1023	10.1023	1.4000e-004	1.5900e-003	10.5800
Vendor	3.0000e-005	8.9000e-004	3.0000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3502	0.3502	0.0000	5.0000e-005	0.3658
Worker	5.2000e-004	4.1000e-004	5.1000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2953	1.2953	3.0000e-005	4.0000e-005	1.3069
Total	1.1100e-003	0.0257	0.0106	1.1000e-004	4.9100e-003	2.9000e-004	5.2000e-003	1.3400e-003	2.8000e-004	1.6200e-003	0.0000	11.7479	11.7479	1.7000e-004	1.6800e-003	12.2527

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1438	0.0000	0.1438	0.0557	0.0000	0.0557	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0604	0.6360	0.5333	1.0900e-003		0.0271	0.0271		0.0249	0.0249	0.0000	95.4101	95.4101	0.0309	0.0000	96.1815
Total	0.0604	0.6360	0.5333	1.0900e-003	0.1438	0.0271	0.1709	0.0557	0.0249	0.0806	0.0000	95.4101	95.4101	0.0309	0.0000	96.1815

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	0.7575	0.1616	3.2400e-003	0.0970	8.3500e-003	0.1054	0.0266	7.9900e-003	0.0346	0.0000	313.0886	313.0886	4.2200e-003	0.0493	327.8915
Vendor	5.0000e-005	1.3300e-003	4.5000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.5254	0.5254	1.0000e-005	8.0000e-005	0.5487
Worker	1.3100e-003	1.0200e-003	0.0128	4.0000e-005	4.1200e-003	2.0000e-005	4.1400e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.2382	3.2382	9.0000e-005	9.0000e-005	3.2673
Total	0.0188	0.7599	0.1748	3.2900e-003	0.1013	8.3900e-003	0.1097	0.0278	8.0300e-003	0.0358	0.0000	316.8522	316.8522	4.3200e-003	0.0495	331.7076

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					0.0561	0.0000	0.0561	0.0217	0.0000	0.0217	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0604	0.6360	0.5333	1.0900e-003		0.0271	0.0271		0.0249	0.0249	0.0000	95.4100	95.4100	0.0309	0.0000	96.1814
Total	0.0604	0.6360	0.5333	1.0900e-003	0.0561	0.0271	0.0832	0.0217	0.0249	0.0466	0.0000	95.4100	95.4100	0.0309	0.0000	96.1814

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	0.7575	0.1616	3.2400e-003	0.0970	8.3500e-003	0.1054	0.0266	7.9900e-003	0.0346	0.0000	313.0886	313.0886	4.2200e-003	0.0493	327.8915
Vendor	5.0000e-005	1.3300e-003	4.5000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.5254	0.5254	1.0000e-005	8.0000e-005	0.5487
Worker	1.3100e-003	1.0200e-003	0.0128	4.0000e-005	4.1200e-003	2.0000e-005	4.1400e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.2382	3.2382	9.0000e-005	9.0000e-005	3.2673
Total	0.0188	0.7599	0.1748	3.2900e-003	0.1013	8.3900e-003	0.1097	0.0278	8.0300e-003	0.0358	0.0000	316.8522	316.8522	4.3200e-003	0.0495	331.7076

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0671	0.6204	0.6453	1.0700e-003		0.0320	0.0320		0.0301	0.0301	0.0000	91.8748	91.8748	0.0225	0.0000	92.4379
Total	0.0671	0.6204	0.6453	1.0700e-003		0.0320	0.0320		0.0301	0.0301	0.0000	91.8748	91.8748	0.0225	0.0000	92.4379

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6700e-003	0.1026	0.0346	4.2000e-004	0.0146	1.4100e-003	0.0160	4.2200e-003	1.3500e-003	5.5700e-003	0.0000	40.4959	40.4959	4.3000e-004	6.0100e-003	42.2973
Worker	0.0252	0.0196	0.2454	6.8000e-004	0.0793	4.0000e-004	0.0797	0.0211	3.7000e-004	0.0214	0.0000	62.3038	62.3038	1.6700e-003	1.7400e-003	62.8629
Total	0.0289	0.1223	0.2800	1.1000e-003	0.0939	1.8100e-003	0.0957	0.0253	1.7200e-003	0.0270	0.0000	102.7998	102.7998	2.1000e-003	7.7500e-003	105.1602

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	0.0671	0.6204	0.6453	1.0700e-003		0.0320	0.0320		0.0301	0.0301	0.0000	91.8747	91.8747	0.0225	0.0000	92.4378
Total	0.0671	0.6204	0.6453	1.0700e-003		0.0320	0.0320		0.0301	0.0301	0.0000	91.8747	91.8747	0.0225	0.0000	92.4378

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6700e-003	0.1026	0.0346	4.2000e-004	0.0146	1.4100e-003	0.0160	4.2200e-003	1.3500e-003	5.5700e-003	0.0000	40.4959	40.4959	4.3000e-004	6.0100e-003	42.2973
Worker	0.0252	0.0196	0.2454	6.8000e-004	0.0793	4.0000e-004	0.0797	0.0211	3.7000e-004	0.0214	0.0000	62.3038	62.3038	1.6700e-003	1.7400e-003	62.8629
Total	0.0289	0.1223	0.2800	1.1000e-003	0.0939	1.8100e-003	0.0957	0.0253	1.7200e-003	0.0270	0.0000	102.7998	102.7998	2.1000e-003	7.7500e-003	105.1602

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4351	4.0138	4.5006	7.5000e-003		0.1945	0.1945		0.1828	0.1828	0.0000	645.8429	645.8429	0.1573	0.0000	649.7761
Total	0.4351	4.0138	4.5006	7.5000e-003		0.1945	0.1945		0.1828	0.1828	0.0000	645.8429	645.8429	0.1573	0.0000	649.7761

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0176	0.5571	0.2220	2.8400e-003	0.1027	4.6300e-003	0.1073	0.0296	4.4300e-003	0.0341	0.0000	273.4071	273.4071	2.7600e-003	0.0404	285.5236
Worker	0.1645	0.1218	1.5874	4.6200e-003	0.5573	2.6500e-003	0.5599	0.1480	2.4400e-003	0.1504	0.0000	423.7774	423.7774	0.0106	0.0113	427.3951
Total	0.1821	0.6790	1.8093	7.4600e-003	0.6599	7.2800e-003	0.6672	0.1776	6.8700e-003	0.1845	0.0000	697.1845	697.1845	0.0133	0.0517	712.9187

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	0.4351	4.0138	4.5006	7.5000e-003		0.1945	0.1945		0.1828	0.1828	0.0000	645.8421	645.8421	0.1573	0.0000	649.7753
Total	0.4351	4.0138	4.5006	7.5000e-003		0.1945	0.1945		0.1828	0.1828	0.0000	645.8421	645.8421	0.1573	0.0000	649.7753

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0176	0.5571	0.2220	2.8400e-003	0.1027	4.6300e-003	0.1073	0.0296	4.4300e-003	0.0341	0.0000	273.4071	273.4071	2.7600e-003	0.0404	285.5236
Worker	0.1645	0.1218	1.5874	4.6200e-003	0.5573	2.6500e-003	0.5599	0.1480	2.4400e-003	0.1504	0.0000	423.7774	423.7774	0.0106	0.0113	427.3951
Total	0.1821	0.6790	1.8093	7.4600e-003	0.6599	7.2800e-003	0.6672	0.1776	6.8700e-003	0.1845	0.0000	697.1845	697.1845	0.0133	0.0517	712.9187

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7000e-003	0.0433	0.0517	9.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	7.4536	7.4536	1.8100e-003	0.0000	7.4987
Total	4.7000e-003	0.0433	0.0517	9.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	7.4536	7.4536	1.8100e-003	0.0000	7.4987

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-004	6.4300e-003	2.5300e-003	3.0000e-005	1.1800e-003	5.0000e-005	1.2400e-003	3.4000e-004	5.0000e-005	3.9000e-004	0.0000	3.1061	3.1061	3.0000e-005	4.6000e-004	3.2436
Worker	1.7700e-003	1.2500e-003	0.0171	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7300e-003	0.0000	4.7349	4.7349	1.1000e-004	1.2000e-004	4.7736
Total	1.9700e-003	7.6800e-003	0.0171	8.0000e-005	7.6100e-003	8.0000e-005	7.7000e-003	2.0500e-003	8.0000e-005	2.1200e-003	0.0000	7.8410	7.8410	1.4000e-004	5.8000e-004	8.0172

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	4.7000e-003	0.0433	0.0517	9.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	7.4536	7.4536	1.8100e-003	0.0000	7.4987
Total	4.7000e-003	0.0433	0.0517	9.0000e-005		1.9700e-003	1.9700e-003		1.8500e-003	1.8500e-003	0.0000	7.4536	7.4536	1.8100e-003	0.0000	7.4987

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.0000e-004	6.4300e-003	2.5300e-003	3.0000e-005	1.1800e-003	5.0000e-005	1.2400e-003	3.4000e-004	5.0000e-005	3.9000e-004	0.0000	3.1061	3.1061	3.0000e-005	4.6000e-004	3.2436
Worker	1.7700e-003	1.2500e-003	0.0171	5.0000e-005	6.4300e-003	3.0000e-005	6.4600e-003	1.7100e-003	3.0000e-005	1.7300e-003	0.0000	4.7349	4.7349	1.1000e-004	1.2000e-004	4.7736
Total	1.9700e-003	7.6800e-003	0.0171	8.0000e-005	7.6100e-003	8.0000e-005	7.7000e-003	2.0500e-003	8.0000e-005	2.1200e-003	0.0000	7.8410	7.8410	1.4000e-004	5.8000e-004	8.0172

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0649	0.4413	0.6134	1.0100e-003		0.0240	0.0240		0.0240	0.0240	0.0000	86.4702	86.4702	5.1700e-003	0.0000	86.5995
Total	1.2381	0.4413	0.6134	1.0100e-003		0.0240	0.0240		0.0240	0.0240	0.0000	86.4702	86.4702	5.1700e-003	0.0000	86.5995

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0321	0.0238	0.3102	9.0000e-004	0.1089	5.2000e-004	0.1094	0.0289	4.8000e-004	0.0294	0.0000	82.7996	82.7996	2.0700e-003	2.2000e-003	83.5064
Total	0.0321	0.0238	0.3102	9.0000e-004	0.1089	5.2000e-004	0.1094	0.0289	4.8000e-004	0.0294	0.0000	82.7996	82.7996	2.0700e-003	2.2000e-003	83.5064

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	1.1732					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0649	0.4413	0.6134	1.0100e-003		0.0240	0.0240		0.0240	0.0240	0.0000	86.4701	86.4701	5.1700e-003	0.0000	86.5994
Total	1.2381	0.4413	0.6134	1.0100e-003		0.0240	0.0240		0.0240	0.0240	0.0000	86.4701	86.4701	5.1700e-003	0.0000	86.5994

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0321	0.0238	0.3102	9.0000e-004	0.1089	5.2000e-004	0.1094	0.0289	4.8000e-004	0.0294	0.0000	82.7996	82.7996	2.0700e-003	2.2000e-003	83.5064
Total	0.0321	0.0238	0.3102	9.0000e-004	0.1089	5.2000e-004	0.1094	0.0289	4.8000e-004	0.0294	0.0000	82.7996	82.7996	2.0700e-003	2.2000e-003	83.5064

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5400e-003	0.0374	0.0555	9.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	7.8300	7.8300	4.4000e-004	0.0000	7.8410
Total	0.1118	0.0374	0.0555	9.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	7.8300	7.8300	4.4000e-004	0.0000	7.8410

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9200e-003	0.0263	8.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	4.0000e-005	2.6600e-003	0.0000	7.2602	7.2602	1.7000e-004	1.8000e-004	7.3195
Total	2.7200e-003	1.9200e-003	0.0263	8.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	4.0000e-005	2.6600e-003	0.0000	7.2602	7.2602	1.7000e-004	1.8000e-004	7.3195

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	0.1062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5400e-003	0.0374	0.0555	9.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	7.8300	7.8300	4.4000e-004	0.0000	7.8410
Total	0.1118	0.0374	0.0555	9.0000e-005		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	7.8300	7.8300	4.4000e-004	0.0000	7.8410

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.5 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7200e-003	1.9200e-003	0.0263	8.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	4.0000e-005	2.6600e-003	0.0000	7.2602	7.2602	1.7000e-004	1.8000e-004	7.3195
Total	2.7200e-003	1.9200e-003	0.0263	8.0000e-005	9.8600e-003	4.0000e-005	9.9000e-003	2.6200e-003	4.0000e-005	2.6600e-003	0.0000	7.2602	7.2602	1.7000e-004	1.8000e-004	7.3195

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0232	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.9000e-004	2.7000e-004	0.0000	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3313	0.3313	0.0000	5.0000e-005	0.3460
Worker	4.5000e-004	3.2000e-004	4.3900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2141	1.2141	3.0000e-005	3.0000e-005	1.2240
Total	4.7000e-004	1.0100e-003	4.6600e-003	1.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.8000e-004	2.0000e-005	4.8000e-004	0.0000	1.5454	1.5454	3.0000e-005	8.0000e-005	1.5700

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0133					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0232	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884

Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.9000e-004	2.7000e-004	0.0000	1.3000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.3313	0.3313	0.0000	5.0000e-005	0.3460
Worker	4.5000e-004	3.2000e-004	4.3900e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.2141	1.2141	3.0000e-005	3.0000e-005	1.2240
Total	4.7000e-004	1.0100e-003	4.6600e-003	1.0000e-005	1.7800e-003	2.0000e-005	1.7900e-003	4.8000e-004	2.0000e-005	4.8000e-004	0.0000	1.5454	1.5454	3.0000e-005	8.0000e-005	1.5700

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Mid Rise	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartment Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Canyon Lake Specific Plan - Construction Only - Riverside-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

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Canyon Lake Specific Plan - Construction Only - Riverside-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	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Canyon Lake Specific Plan - Construction Only - Riverside-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	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484
Unmitigated	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484

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	0.1279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1962					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	0.0585	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484
Total	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.1279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1962					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	0.0585	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484
Total	1.3826	0.0224	1.9406	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2484

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Canyon Lake Specific Plan - Construction Only - Riverside-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	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Canyon Lake Specific Plan - Construction Only - Riverside-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	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Canyon Lake Specific Plan - Construction Only - Riverside-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	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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Canyon Lake Specific Plan - Construction Only - Riverside-South Coast County, Annual

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Summer

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

Canyon Lake Specific Plan - Operations Only

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction modeled separately.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Construction modeled separately.

Trips and VMT -

Demolition -

Grading -

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Summer

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

Vehicle Trips - Per VMT Report and Project assumptions.

Woodstoves - Per Project assumptions

Energy Use -

Water And Wastewater - Per Project assumptions.

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	188.00
tblFireplaces	NumberWood	9.40	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	6.71
tblVehicleTrips	HS_TL	5.90	6.71
tblVehicleTrips	HW_TL	14.70	6.71

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Summer

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

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblWater	IndoorWaterUseRate	12,248,956.82	10,160,426.09
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	6,293,773.91
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Energy	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Mobile	8.3606	9.1422	70.3789	0.1604	17.8123	0.1205	17.9327	4.7509	0.1129	4.8638		16,343.8655	16,343.8655	0.8327	0.7812	16,597.4903
Total	16.1755	10.1168	86.2811	0.1662	17.8123	0.2703	18.0826	4.7509	0.2627	5.0137	0.0000	17,379.1996	17,379.1996	0.8788	0.7997	17,639.4821

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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Energy	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Mobile	8.3606	9.1422	70.3789	0.1604	17.8123	0.1205	17.9327	4.7509	0.1129	4.8638		16,343.8655	16,343.8655	0.8327	0.7812	16,597.4903
Total	16.1755	10.1168	86.2811	0.1662	17.8123	0.2703	18.0826	4.7509	0.2627	5.0137	0.0000	17,379.1996	17,379.1996	0.8788	0.7997	17,639.4821

Canyon Lake Specific Plan - Operations Only - Riverside-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	9/1/2022	8/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 11.58

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
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Canyon Lake Specific Plan - Operations Only - Riverside-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	8.3606	9.1422	70.3789	0.1604	17.8123	0.1205	17.9327	4.7509	0.1129	4.8638		16,343.8655	16,343.8655	0.8327	0.7812	16,597.4903
Unmitigated	8.3606	9.1422	70.3789	0.1604	17.8123	0.1205	17.9327	4.7509	0.1129	4.8638		16,343.8655	16,343.8655	0.8327	0.7812	16,597.4903

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,022.72	923.08	768.92	2,372,840	2,372,840
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	1,003.22	227.63	72.10	1,853,417	1,853,417
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,170.25	1,429.72	654.10	2,766,642	2,766,642
Total	3,196.19	2,580.43	1,495.12	6,992,899	6,992,899

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	6.71	6.71	6.71	40.20	19.20	40.60	100	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Canyon Lake Specific Plan - Operations Only - Riverside-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
General Office Building	6.71	6.71	6.71	33.00	48.00	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	6.71	6.71	6.71	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Enclosed Parking Structure	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
General Office Building	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Parking Lot	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Regional Shopping Center	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Canyon Lake Specific Plan - Operations Only - Riverside-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					
Natural Gas Mitigated	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Natural Gas Unmitigated	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7407.8	0.0799	0.6827	0.2905	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.5062	871.5062	0.0167	0.0160	876.6851
Enclosed Parking Structure	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
General Office Building	967.918	0.0104	0.0949	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003		113.8727	113.8727	2.1800e-003	2.0900e-003	114.5494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	186.849	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9823	21.9823	4.2000e-004	4.0000e-004	22.1129
Total		0.0924	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3611	1,007.3611	0.0193	0.0185	1,013.3474

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.4078	0.0799	0.6827	0.2905	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.5062	871.5062	0.0167	0.0160	876.6851
Enclosed Parking Structure	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
General Office Building	0.967918	0.0104	0.0949	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003		113.8727	113.8727	2.1800e-003	2.0900e-003	114.5494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.186849	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9823	21.9823	4.2000e-004	4.0000e-004	22.1129
Total		0.0924	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3611	1,007.3611	0.0193	0.0185	1,013.3474

6.0 Area Detail

6.1 Mitigation Measures Area

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Unmitigated	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4672	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861		27.9730	27.9730	0.0269		28.6445
Total	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

Canyon Lake Specific Plan - Operations Only - Riverside-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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4672	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861		27.9730	27.9730	0.0269		28.6445
Total	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Operations Only - Riverside-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

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Winter

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

Canyon Lake Specific Plan - Operations Only

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction modeled separately.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Construction modeled separately.

Trips and VMT -

Demolition -

Grading -

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Winter

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

Vehicle Trips - Per VMT Report and Project assumptions.

Woodstoves - Per Project assumptions

Energy Use -

Water And Wastewater - Per Project assumptions.

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	188.00
tblFireplaces	NumberWood	9.40	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	6.71
tblVehicleTrips	HS_TL	5.90	6.71
tblVehicleTrips	HW_TL	14.70	6.71

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Winter

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

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblWater	IndoorWaterUseRate	12,248,956.82	10,160,426.09
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	6,293,773.91
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Energy	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Mobile	6.9440	9.7180	63.5140	0.1491	17.8123	0.1206	17.9328	4.7509	0.1130	4.8639		15,201.7487	15,201.7487	0.8611	0.7980	15,461.0739
Total	14.7589	10.6926	79.4161	0.1549	17.8123	0.2704	18.0827	4.7509	0.2628	5.0138	0.0000	16,237.0828	16,237.0828	0.9073	0.8165	16,503.0658

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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Energy	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Mobile	6.9440	9.7180	63.5140	0.1491	17.8123	0.1206	17.9328	4.7509	0.1130	4.8639		15,201.7487	15,201.7487	0.8611	0.7980	15,461.0739
Total	14.7589	10.6926	79.4161	0.1549	17.8123	0.2704	18.0827	4.7509	0.2628	5.0138	0.0000	16,237.0828	16,237.0828	0.9073	0.8165	16,503.0658

Canyon Lake Specific Plan - Operations Only - Riverside-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	9/1/2022	8/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 11.58

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
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Canyon Lake Specific Plan - Operations Only - Riverside-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	6.9440	9.7180	63.5140	0.1491	17.8123	0.1206	17.9328	4.7509	0.1130	4.8639		15,201.74 87	15,201.74 87	0.8611	0.7980	15,461.07 39
Unmitigated	6.9440	9.7180	63.5140	0.1491	17.8123	0.1206	17.9328	4.7509	0.1130	4.8639		15,201.74 87	15,201.74 87	0.8611	0.7980	15,461.07 39

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,022.72	923.08	768.92	2,372,840	2,372,840
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	1,003.22	227.63	72.10	1,853,417	1,853,417
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,170.25	1,429.72	654.10	2,766,642	2,766,642
Total	3,196.19	2,580.43	1,495.12	6,992,899	6,992,899

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	6.71	6.71	6.71	40.20	19.20	40.60	100	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Canyon Lake Specific Plan - Operations Only - Riverside-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
General Office Building	6.71	6.71	6.71	33.00	48.00	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	6.71	6.71	6.71	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Enclosed Parking Structure	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
General Office Building	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Parking Lot	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Regional Shopping Center	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Canyon Lake Specific Plan - Operations Only - Riverside-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					
Natural Gas Mitigated	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474
Natural Gas Unmitigated	0.0923	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3612	1,007.3612	0.0193	0.0185	1,013.3474

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	7407.8	0.0799	0.6827	0.2905	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.5062	871.5062	0.0167	0.0160	876.6851
Enclosed Parking Structure	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
General Office Building	967.918	0.0104	0.0949	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003		113.8727	113.8727	2.1800e-003	2.0900e-003	114.5494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	186.849	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9823	21.9823	4.2000e-004	4.0000e-004	22.1129
Total		0.0924	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3611	1,007.3611	0.0193	0.0185	1,013.3474

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.4078	0.0799	0.6827	0.2905	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.5062	871.5062	0.0167	0.0160	876.6851
Enclosed Parking Structure	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
General Office Building	0.967918	0.0104	0.0949	0.0797	5.7000e-004		7.2100e-003	7.2100e-003		7.2100e-003	7.2100e-003		113.8727	113.8727	2.1800e-003	2.0900e-003	114.5494
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.186849	2.0200e-003	0.0183	0.0154	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003		21.9823	21.9823	4.2000e-004	4.0000e-004	22.1129
Total		0.0924	0.7959	0.3856	5.0400e-003		0.0638	0.0638		0.0638	0.0638		1,007.3611	1,007.3611	0.0193	0.0185	1,013.3474

6.0 Area Detail

6.1 Mitigation Measures Area

Canyon Lake Specific Plan - Operations Only - Riverside-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	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445
Unmitigated	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4672	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861		27.9730	27.9730	0.0269		28.6445
Total	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

Canyon Lake Specific Plan - Operations Only - Riverside-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	0.7011					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.5543					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	0.4672	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861		27.9730	27.9730	0.0269		28.6445
Total	7.7226	0.1787	15.5165	8.2000e-004		0.0861	0.0861		0.0861	0.0861	0.0000	27.9730	27.9730	0.0269	0.0000	28.6445

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Operations Only - Riverside-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

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

Canyon Lake Specific Plan - Operations Only

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	103.00	1000sqft	2.36	103,000.00	0
Enclosed Parking Structure	62.00	1000sqft	1.42	62,000.00	0
Parking Lot	10.16	Acre	10.16	442,569.60	0
Apartments Mid Rise	188.00	Dwelling Unit	4.95	188,000.00	538
Regional Shopping Center	31.00	1000sqft	0.71	31,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Construction modeled separately.

Off-road Equipment - Per Project assumptions

Off-road Equipment - Construction modeled separately.

Trips and VMT -

Demolition -

Grading -

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

Vehicle Trips - Per VMT Report and Project assumptions.

Woodstoves - Per Project assumptions

Energy Use -

Water And Wastewater - Per Project assumptions.

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Waste Mitigation - Per CalRecycle

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	159.80	0.00
tblFireplaces	NumberNoFireplace	18.80	188.00
tblFireplaces	NumberWood	9.40	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CC_TL	8.40	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CNW_TL	6.90	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	CW_TL	16.60	6.71
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	HO_TL	8.70	6.71
tblVehicleTrips	HS_TL	5.90	6.71
tblVehicleTrips	HW_TL	14.70	6.71

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	54.00	100.00
tblWater	IndoorWaterUseRate	12,248,956.82	10,160,426.09
tblWater	IndoorWaterUseRate	18,306,576.04	0.00
tblWater	IndoorWaterUseRate	2,296,248.17	0.00
tblWater	OutdoorWaterUseRate	7,722,168.43	6,293,773.91
tblWater	OutdoorWaterUseRate	11,220,159.51	0.00
tblWater	OutdoorWaterUseRate	1,407,377.91	0.00
tblWoodstoves	NumberCatalytic	9.40	0.00
tblWoodstoves	NumberNoncatalytic	9.40	0.00

2.0 Emissions Summary

Canyon Lake Specific Plan - Operations Only - Riverside-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					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

		Highest		
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2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482
Energy	0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	618.6194	618.6194	0.0413	7.6800e-003	621.9414
Mobile	1.0620	1.4688	9.8554	0.0229	2.6436	0.0182	2.6618	0.7061	0.0170	0.7231	0.0000	2,113.1445	2,113.1445	0.1174	0.1097	2,148.7547
Waste						0.0000	0.0000		0.0000	0.0000	43.6065	0.0000	43.6065	2.5771	0.0000	108.0333
Water						0.0000	0.0000		0.0000	0.0000	3.2234	35.8633	39.0867	0.3341	8.1800e-003	49.8783
Total	2.4613	1.6364	11.8653	0.0239	2.6436	0.0406	2.6842	0.7061	0.0394	0.7455	46.8300	2,770.7993	2,817.6292	3.0729	0.1255	2,931.8559

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482
Energy	0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	618.6194	618.6194	0.0413	7.6800e-003	621.9414
Mobile	1.0620	1.4688	9.8554	0.0229	2.6436	0.0182	2.6618	0.7061	0.0170	0.7231	0.0000	2,113.1445	2,113.1445	0.1174	0.1097	2,148.7547
Waste						0.0000	0.0000		0.0000	0.0000	27.4721	0.0000	27.4721	1.6236	0.0000	68.0610
Water						0.0000	0.0000		0.0000	0.0000	3.2234	35.8633	39.0867	0.3341	8.1800e-003	49.8783
Total	2.4613	1.6364	11.8653	0.0239	2.6436	0.0406	2.6842	0.7061	0.0394	0.7455	30.6955	2,770.7993	2,801.4948	2.1194	0.1255	2,891.8836

	ROG	NOx	CO	SO2	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	34.45	0.00	0.57	31.03	0.00	1.36

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	9/1/2022	8/31/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 11.58

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
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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	tons/yr										MT/yr					
Mitigated	1.0620	1.4688	9.8554	0.0229	2.6436	0.0182	2.6618	0.7061	0.0170	0.7231	0.0000	2,113.1445	2,113.1445	0.1174	0.1097	2,148.7547
Unmitigated	1.0620	1.4688	9.8554	0.0229	2.6436	0.0182	2.6618	0.7061	0.0170	0.7231	0.0000	2,113.1445	2,113.1445	0.1174	0.1097	2,148.7547

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,022.72	923.08	768.92	2,372,840	2,372,840
Enclosed Parking Structure	0.00	0.00	0.00		
General Office Building	1,003.22	227.63	72.10	1,853,417	1,853,417
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	1,170.25	1,429.72	654.10	2,766,642	2,766,642
Total	3,196.19	2,580.43	1,495.12	6,992,899	6,992,899

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	6.71	6.71	6.71	40.20	19.20	40.60	100	0	0
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	6.71	6.71	6.71	33.00	48.00	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	6.71	6.71	6.71	16.30	64.70	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Enclosed Parking Structure	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
General Office Building	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Parking Lot	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Regional Shopping Center	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Canyon Lake Specific Plan - Operations Only - Riverside-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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	451.8394	451.8394	0.0381	4.6200e-003	454.1704
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	451.8394	451.8394	0.0381	4.6200e-003	454.1704
Natural Gas Mitigated	0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7799	166.7799	3.2000e-003	3.0600e-003	167.7710
Natural Gas Unmitigated	0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7799	166.7799	3.2000e-003	3.0600e-003	167.7710

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.70385e+006	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2876	144.2876	2.7700e-003	2.6500e-003	145.1451
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	353290	1.9000e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	18.8529	18.8529	3.6000e-004	3.5000e-004	18.9649
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	68200	3.7000e-004	3.3400e-003	2.8100e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6394	3.6394	7.0000e-005	7.0000e-005	3.6610
Total		0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7799	166.7799	3.2000e-003	3.0700e-003	167.7710

Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.70385e+006	0.0146	0.1246	0.0530	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.2876	144.2876	2.7700e-003	2.6500e-003	145.1451
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	353290	1.9000e-003	0.0173	0.0146	1.0000e-004		1.3200e-003	1.3200e-003		1.3200e-003	1.3200e-003	0.0000	18.8529	18.8529	3.6000e-004	3.5000e-004	18.9649
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	68200	3.7000e-004	3.3400e-003	2.8100e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6394	3.6394	7.0000e-005	7.0000e-005	3.6610
Total		0.0169	0.1453	0.0704	9.2000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	166.7799	166.7799	3.2000e-003	3.0700e-003	167.7710

Canyon Lake Specific Plan - Operations Only - Riverside-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

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	744482	132.0305	0.0111	1.3500e-003	132.7117
Enclosed Parking Structure	325500	57.7260	4.8700e-003	5.9000e-004	58.0238
General Office Building	946570	167.8700	0.0142	1.7200e-003	168.7360
Parking Lot	154899	27.4707	2.3200e-003	2.8000e-004	27.6124
Regional Shopping Center	376340	66.7422	5.6300e-003	6.8000e-004	67.0865
Total		451.8394	0.0381	4.6200e-003	454.1704

Canyon Lake Specific Plan - Operations Only - Riverside-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	744482	132.0305	0.0111	1.3500e-003	132.7117
Enclosed Parking Structure	325500	57.7260	4.8700e-003	5.9000e-004	58.0238
General Office Building	946570	167.8700	0.0142	1.7200e-003	168.7360
Parking Lot	154899	27.4707	2.3200e-003	2.8000e-004	27.6124
Regional Shopping Center	376340	66.7422	5.6300e-003	6.8000e-004	67.0865
Total		451.8394	0.0381	4.6200e-003	454.1704

6.0 Area Detail

6.1 Mitigation Measures Area

Canyon Lake Specific Plan - Operations Only - Riverside-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	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482
Unmitigated	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482

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	0.1279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1962					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	0.0584	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482
Total	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482

Canyon Lake Specific Plan - Operations Only - Riverside-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	0.1279					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1962					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	0.0584	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482
Total	1.3825	0.0223	1.9396	1.0000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	3.1721	3.1721	3.0500e-003	0.0000	3.2482

7.0 Water Detail

7.1 Mitigation Measures Water

Canyon Lake Specific Plan - Operations Only - Riverside-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	39.0867	0.3341	8.1800e-003	49.8783
Unmitigated	39.0867	0.3341	8.1800e-003	49.8783

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	10.1604 / 6.29377	39.0867	0.3341	8.1800e-003	49.8783
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		39.0867	0.3341	8.1800e-003	49.8783

Canyon Lake Specific Plan - Operations Only - Riverside-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	10.1604 / 6.29377	39.0867	0.3341	8.1800e-003	49.8783
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		39.0867	0.3341	8.1800e-003	49.8783

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Canyon Lake Specific Plan - Operations Only - Riverside-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	27.4721	1.6236	0.0000	68.0610
Unmitigated	43.6065	2.5771	0.0000	108.0333

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	86.48	17.5547	1.0375	0.0000	43.4909
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	95.79	19.4445	1.1491	0.0000	48.1729
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	32.55	6.6074	0.3905	0.0000	16.3694
Total		43.6065	2.5771	0.0000	108.0333

Canyon Lake Specific Plan - Operations Only - Riverside-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	54.4824	11.0594	0.6536	0.0000	27.3993
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Office Building	60.3477	12.2500	0.7240	0.0000	30.3490
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	20.5065	4.1626	0.2460	0.0000	10.3128
Total		27.4721	1.6236	0.0000	68.0610

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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Canyon Lake Specific Plan - Operations Only - Riverside-South Coast County, Annual

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
