

MEMORANDUM

To: GRT Carlsbad Village LLC, c/o Tooley Interests LLC
From: David Larocca, Dudek
Subject: Air Quality and Greenhouse Gas Emissions Assessment for the Tooley Carlsbad Project, City of Carlsbad, California
Date: December 4, 2023
cc: Carey Fernandes, Dudek
Attachment(s): A, CalEEMod Output File

The Project qualifies for a Class 32 categorical exemption under the California Environmental Quality Act (CEQA). Pursuant to CEQA Guidelines Section 15332, Class 32 categorical exemptions can be used for projects characterized as in-fill development meeting the following conditions: (1) general plan and zoning consistency; (2) project is within city limits on a site of no more than 5 acres and is surrounded by urban uses; (3) project site has no value as habitat for endangered, rare, or threatened species; (4) project would not result in significant effects to traffic, noise, air quality, or water quality; and (5) the site can be adequately served by all required utilities and public services. Additionally, in order to qualify for a categorical exemption, a project cannot meet any of the “exceptions to exemptions” enumerated in CEQA Guidelines Section 15300.2.

The purpose of this memorandum is to demonstrate that the Project meets the conditions for a Class 32 categorical exemption for air quality. While not required for a categorical exemption, this memorandum also analyzes the Project’s potential impacts in the category of greenhouse gas (GHG) emissions. The memorandum addresses air quality and GHG emissions from construction and operational activities. **No significant impacts would occur.**

1 Project Description

The Project proposes to develop a mixed-use development consisting of 218 multi-family units, as well as 13,800 square feet of commercial space, including parking and open space. The proposed commercial uses would be contained in two, one-story buildings along Carlsbad Village Drive, and the residential units would be provided in two five-story buildings. 340 vehicular parking spaces will be provided at grade surround the commercial and residential buildings and within an above-grade parking structure. The existing Project site is fully paved and developed with commercial buildings that would be demolished during Project construction.

2 General Analysis and Methodology

The Project area is located within the San Diego Air Basin (SDAB) and is subject to the SDAPCD guidelines and regulations. The SDAB is one of 15 air basins that geographically divide the State of California. The SDAB is currently classified as a federal nonattainment area for ozone (O₃) and a state nonattainment area for particulate matter less than 10 microns (PM₁₀), particulate matter less than 2.5 microns (PM_{2.5}), and O₃.

While CARB is responsible for the regulation of mobile emission sources within the state, local air quality management districts and air pollution control districts are responsible for enforcing standards and regulating

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stationary sources. In San Diego County, O3 and particulate matter are the pollutants of main concern, since exceedances of CAAQS for those pollutants are experienced here in most years. For this reason, the SDAB has been designated as a nonattainment area for the state PM10, PM2.5, and O3 standards. The SDAB is also a federal O3 attainment (maintenance) area for 1997 8-hour O3 standard, a O3 nonattainment area for the 2008 8-hour O3 standard, and a CO maintenance area (western and central part of the SDAB only). The Project area is in the CO maintenance area (western and central part of the SDAB only).

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to determine whether a project would have a significant impact on air quality.

Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.) indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether the project would have a significant impact on air quality. As part of its air quality permitting process, the SDAPCD has established thresholds in Rule 20.2 requiring the preparation of Air Quality Impact Assessments for permitted stationary sources. The SDAPCD sets forth quantitative emission thresholds below which a stationary source would not have a significant impact on ambient air quality. Project-related air quality impacts estimated in this environmental analysis would be considered significant if any of the applicable significance thresholds presented in Table 1 are exceeded.

For CEQA purposes, these screening criteria can be used as numeric methods to demonstrate that the Project's total emissions would or would not result in a significant impact to air quality.

Table 1. SDAPCD Air Quality Significance Thresholds

Construction Emissions	
Pollutant	Total Emissions (Pounds per Day)
Coarse particulate matter (PM ₁₀)	100
Fine particulate matter (PM _{2.5})	55
Oxides of nitrogen (NO _x)	250
Sulfur oxides (SO _x)	250
Carbon monoxide (CO)	550
Volatile organic compounds (VOCs)	137*

Table 1. SDAPCD Air Quality Significance Thresholds

Operational Emissions			
Pollutant	Total Emissions		
	Pounds per Hour	Pounds per Day	Tons per Year
Coarse particulate matter (PM ₁₀)	—	100	15
Fine particulate matter (PM _{2.5})	—	55	10
Oxides of nitrogen (NO _x)	25	250	40
Sulfur oxides (SO _x)	25	250	40
Carbon monoxide (CO)	100	550	100
Lead and lead compounds	—	3.2	0.6
Volatile organic compounds (VOCs)	—	137 ^a	13.7

Source: SDAPCD 2016a.

Notes: SDAPCD = San Diego Air Pollution Control District.

^a VOC threshold based on the significance thresholds recommended by the Monterey Bay Unified Air Pollution Control District for the North Central Coast Air Basin, which has similar federal and state attainment status as the SDAB for O₃.

The thresholds listed in Table 1 represent screening-level thresholds that can be used to evaluate whether Project-related emissions would cause a significant impact on air quality. Emissions below the screening-level thresholds would not cause a significant impact. In the event that emissions exceed these thresholds, modeling would be required to demonstrate that the Project’s total air quality impacts result in ground-level concentrations that are below the CAAQS and NAAQS, including appropriate background levels. For non-attainment pollutants, if emissions exceed the thresholds shown in Table 1, the Project could have the potential to result in a cumulatively considerable net increase in these pollutants and thus could have a significant impact on the ambient air quality.

3 Air Quality Assessment

Approach and Methodology

Construction

Emissions from the construction of the Project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2020.4.0 model (CAPCOA 2022). CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant emissions associated with the construction and operational activities from a variety of land use projects, such as residential, commercial, and industrial facilities.

Construction scenario assumptions, including phasing, equipment mix, and vehicle trips, were based on information provided by the applicant and CalEEMod-generated default values. Complete detailed construction assumptions are included in Attachment A.

For purposes of estimating the Project emissions, and based on information provided by the applicant, it is assumed that construction of the Project would occur over an approximately 26-month period, beginning in year 2024, and

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occur 6-days per week. The analysis contained herein is based on the assumptions outlined in Table 2 (duration of phases is approximate). The Project schedule was based on information provided by the applicant.

Table 2. Construction Phasing Assumptions

Project Construction Phase	Construction Phase Duration (Months)	Construction Start Month/Year	Construction End Month/Year
Demolition	1	07/01/2024	07/29/2024
Site preparation	0.25	07/30/2024	08/06/2024
Grading	1	08/07/2024	09/04/2024
Building construction	24	09/05/2024	09/03/2026
Architectural coatings	4	04/01/2026 ^a	07/29/2026
Paving	0.50	07/01/2026 ^a	07/15/2026

Notes: See Attachment A for details.

^a Paving and architectural coatings would be completed during the building construction phase.

The mix of construction equipment used for estimating the construction emissions of the Project is based on applicant-provided information and CalEEMod default values as shown in Table 3. For this analysis, it was assumed that heavy construction equipment would operate 6 days a week during Project construction. The demolition truck haul trips are based on the removal of existing buildings (59,750 SF) and existing paved surfaces (120,000 SF). Grading haul truck trips are based on an estimated 4,000 cubic yards of export and 1,000 cubic yards of import materials.

Table 3. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	16	4	948	Concrete/Industrial Saws	1	8
				Excavators	2	8
				Rubber Tired Dozer	2	8
Site preparation	18	4	0	Rubber Tired Dozer	2	8
				Tractors/loaders/backhoes	1	8
Grading	16	4	625	Crawler Tractors	2	8
				Graders	1	8
				Rubber Tired Loaders	2	8
				Scrapers	3	8
Building construction	160	36	125	Aerial Lifts	3	8
				Cranes	1	7
				Generator Sets	1	8

Table 3. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Total Haul Truck Trips	Equipment Type	Quantity	Usage Hours
				Rough Terrain Forklifts	3	8
				Tractors/loaders/backhoes	2	8
Paving	20	6	0	Pavers	1	8
				Paving equipment	2	6
				Rollers	1	8
				Signal Boards	4	8
				Skid Steer Loaders	1	8
Architectural coatings	40	2	0	Air compressors	2	8

Notes: See Attachment A for details.

Operation

Operation of the Project would produce volatile organic compounds (VOCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), coarse particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}) emissions associated with vehicular traffic, area sources (consumer products, architectural coatings, landscaping equipment), and energy sources (natural gas, appliances, and space and water heating). Operation of the Project would generate GHG emissions through motor vehicle trips to and from the Project site; landscape maintenance equipment operation; energy use (natural gas and generation of electricity consumed by the Project); solid waste disposal; and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. Emissions from the operation of the Project facilities were estimated using the default CalEEMod values based on the specific land use categories.

The site is currently occupied by existing commercial businesses with supporting buildings which will be removed as part of the Project and represent the demolition activities described above. To determine the net operational emissions as a result of the Project, the existing facilities are modeled with CalEEMod default values for 58,750 square feet (SF) of commercial operations. See Appendix A for details.

Impact Analysis

Construction

Table 4 shows the estimated maximum daily construction emissions associated with construction of the Project without mitigation. Complete details of the emissions calculations are provided in Attachment A of this document.

Table 4. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
2024	1.42	24.82	44.14	0.10	6.14	3.12
2025	1.13	14.2	26.14	0.05	1.65	0.50
2026	18.75	25.94	45.10	0.08	2.33	0.79
<i>Maximum</i>	<i>18.75</i>	<i>25.94</i>	<i>45.10</i>	<i>0.10</i>	<i>6.14</i>	<i>3.12</i>
<i>SDAPCD threshold</i>	<i>137</i>	<i>250</i>	<i>550</i>	<i>250</i>	<i>100</i>	<i>55</i>
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District.

See Appendix A for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod.

As shown in Table 4, daily construction emissions for the Project would not exceed SDAPCD’s significance thresholds for VOCs, NO_x, CO, SO_x, PM₁₀, or PM_{2.5}. Therefore, the Project would result in a **less than significant** impact.

Operation

Area

The area source category calculates direct sources of air pollutant emissions located at the Project site, including consumer product use, architectural coatings, and landscape maintenance equipment. This does not include the emissions associated with natural gas usage in space heating, water heating, and stoves as these are calculated in the building energy use module. The Project will not have fireplaces or woodstoves. CalEEMod defaults were used for operational hours and number of days per year for all sources other than fireplace and woodstoves as they were not included in the modeling analysis.

Consumer products are various solvents used in non-industrial applications which emit VOCs during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. Consumer product VOC emissions are estimated in CalEEMod based on the floor area of residential and nonresidential buildings and on the default factor of pounds of VOC per building square foot per day. For parking lot land uses, CalEEMod estimates VOC emissions associated with use of parking surface degreasers based on a square footage of parking surface area and pounds of VOC per square foot per day. The CalEEMod default utilization rates and emission factors were assumed.

This VOC emissions associated with the reapplication rate and coating for each building surface type and parking surface was also estimated using CalEEMod. The reapplication rate is the percentage of the total surface area that

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is repainted each year. A default of 10% is used, meaning that 10% of the surface area is repainted each year (i.e., all surface areas are repainted once every 10 years). Daily emissions divide the annual rate by 365 days per year. It was assumed that the Project would comply with SDAPCD Rule 67.0.1 for Architectural Coatings.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers, as well as air compressors, generators, and pumps. The emissions associated from landscape equipment use were estimated using CalEEMod. The emission factors are multiplied by the number of summer days that represent the number of operational days.

Energy

As represented in CalEEMod, energy sources include emissions associated with natural gas usage (non-hearth). Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for greenhouse gases in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. CalEEMod default values for energy consumption for each land use were applied for the Project analysis. The energy use from residential land uses is calculated in CalEEMod based on the Residential Appliance Saturation Survey (CAPCOA 2022).

Mobile Sources (Motor Vehicles)

Following the completion of construction activities, the Project would generate VOC, NO_x, CO, SO_x, PM₁₀, and PM_{2.5} emissions from mobile sources (vehicular traffic) as a result of the 219 additional residential units and commercial operations. The CalEEMod Version 2020.4.0 was used to estimate daily emissions from proposed vehicular sources (refer to Appendix A). CalEEMod default data, including temperature, trip characteristics, variable start information, emissions factors, and trip distances, were conservatively used for the model inputs. Project specific trip rates and trip rates for the existing commercial land uses were utilized from the Linscott Law & Greenspan analyses dated November 13, 2023. Emission factors representing the vehicle mix and emissions for 2026 were conservatively used to estimate emissions associated with vehicular sources.

Table 5 presents the maximum daily emissions associated with the operation of the existing 58,750 SF of commercial land use. Table 6 presents the maximum daily emissions associated with the operation of the existing Project and net change from existing operation. Complete details of the emissions calculations are provided in Appendix A of this document. Emissions represent maximum of summer and winter. “Summer” emissions are representative of the conditions that may occur during the O₃ season (May 1 to October 31), and “winter” emissions are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 5. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions - Existing Land Uses

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Area	1.39	<0.01	0.02	0	<0.01	<0.01
Energy	<0.01	0.04	0.03	<0.01	<0.01	<0.01
Mobile	9.08	8.25	71.86	0.14	15.66	4.24
Total	10.47	8.29	71.91	0.14	15.66	4.24

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.

See Appendix A for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod.

Table 6. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions - Net Project Emissions Compared to SDAPCD Thresholds

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Area	7.02	0.21	18.00	<0.01	0.10	0.10
Energy	0.08	0.74	0.46	<0.01	0.06	0.06
Mobile	7.57	6.94	60.47	0.12	13.29	3.60
Total	14.67	7.89	78.93	0.12	13.45	3.76
Net (Project - Existing)	4.20	-0.40	7.02	-0.02	-2.21	-0.48
<i>SDAPCD threshold</i>	137	250	550	250	100	55
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.

See Appendix A for complete results.

The values shown are the maximum summer or winter daily emissions results from CalEEMod.

As shown in Table 6, the net maximum daily operational emissions would not exceed SDAPCD’s thresholds for VOCs, CO, NO_x, SO_x, PM₁₀, or PM_{2.5} during the operation of the Project. Therefore, the Project would result in a **less than significant** impact.

Tables 7 and 8 shows the annual operational emissions estimated for the existing land uses and the Project, respectively.

Table 7. Estimated Annual Operational Criteria Air Pollutant Emissions- Existing Land Uses

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Tons per Year					
Area	0.25	<0.01	<0.01	0	<0.01	<0.01
Energy	<0.01	0.01	0.01	<0.01	<0.01	<0.01
Mobile	1.24	1.17	10.10	0.02	2.21	0.60
Total	1.49	1.18	10.11	0.02	2.21	0.60

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.

See Appendix A for complete results.

Table 8. Estimated Annual Operational Criteria Air Pollutant Emissions- Net Project Emissions Compared to SDAPCD Thresholds

Source	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Tons per Year					
Area	1.23	0.02	1.62	<0.01	0.01	0.01
Energy	0.02	0.14	0.08	<0.01	0.01	0.01
Mobile	1.12	1.09	9.34	0.02	2.08	0.57
Total	2.37	1.25	11.04	0.02	2.10	0.59
Net (Project - Existing)	0.88	0.07	0.93	0	-0.11	-0.01
<i>SDAPCD threshold</i>	<i>13.7</i>	<i>40</i>	<i>100</i>	<i>40</i>	<i>15</i>	<i>10</i>
Threshold exceeded?	No	No	No	No	No	No

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter; SDAPCD = San Diego Air Pollution Control District. <0.01 = reported value is less than 0.01.

See Appendix A for complete results.

As shown in Table 8, the annual operations emissions for the Project do not exceed SDAPCD’s significance thresholds for VOCs, CO, NO_x, SO_x, PM₁₀, or PM_{2.5}. Therefore, the Project would result in a **less than significant** impact.

Conclusion

In analyzing cumulative impacts from a project, the analysis must specifically evaluate the project’s contribution to the cumulative increase in pollutants for which the SDAB is designated as nonattainment for the CAAQS and NAAQS. If the project does not exceed thresholds and is determined to have less than significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality if the emissions from the project components, in combination with the emissions from other proposed or reasonably foreseeable future projects, are in excess of established thresholds. However, the project would only be considered to have a significant cumulative impact if its contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a “cumulatively considerable contribution” to the cumulative air quality impact).

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Additionally, for the SDAB, the RAQS serves as the long-term regional air quality planning document for the purpose of assessing cumulative operational emissions within the basin to ensure the SDAB continues to make progress toward NAAQS and CAAQS attainment status. As such, cumulative projects located in the San Diego region would have the potential to result in a cumulative impact to air quality if, in combination, they would conflict with or obstruct implementation of the RAQS. Similarly, individual projects that are inconsistent with the regional planning documents on which the RAQS is based would have the potential to result in cumulative impacts if they represent development beyond regional projections.

The SDAB has been designated as a federal nonattainment area for O₃ and a state nonattainment area for O₃, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions associated with construction generally result in near-field impacts. The nonattainment status is the result of cumulative emissions from all sources of these air pollutants and their precursors within the SDAB. As shown in Tables 4 through 8, the emissions of all criteria pollutants from the Project's construction and operational activities would be below the significance levels. Construction would be short term and temporary in nature. Additionally, construction activities required for the implementation of Project components would be considered typical of a residential project and would not require atypical construction practices that would include high-emitting activities. Once construction is completed, construction-related emissions would cease. Operational emissions generated by the Project would not result in a significant impact. As such, the Project would result in less than significant impacts to air quality relative to operational emissions.

Regarding long-term cumulative operational emissions in relation to consistency with local air quality plans, the SIP and RAQS serve as the primary air quality planning documents for the state and SDAB, respectively. The SIP and RAQS rely on SANDAG growth projections based on population, vehicle trends, and land use plans developed by the cities and by the County as part of the development of their general plans. Therefore, projects that propose development that is consistent with the growth anticipated by local plans would be consistent with the SIP and RAQS and would not be considered to result in cumulatively considerable impacts from operational emissions. The Project is consistent with current land use designations and as such, the Project is consistent with the SANDAG growth projections. Thus, it would be consistent at a regional level with the underlying growth forecasts in the SIP and RAQS.

As a result, the Project would not result in a cumulatively considerable contribution to regional O₃ concentrations or other criteria pollutant emissions. Cumulative impacts for construction and operation would be **less than significant** for the Project.

4 Greenhouse Gas Emissions Assessment

The purpose of this memorandum is to demonstrate that the Project meets the conditions for a Class 32 categorical exemption for air quality. While not required for a categorical exemption, this memorandum also analyzes the Project's potential impacts in the category of greenhouse gas (GHG) emissions. The follow provides GHG emissions from construction and operational activities for informational purposes only.

Impact Analysis

Construction

Table 9 shows the estimated 30-year amortized GHG emission associated with construction of the Project without mitigation. Complete details of the emissions calculations are provided in Attachment A of this document.

Table 9. Estimated Annual Construction GHG Emissions

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons			
2024	413.53	0.08	0.01	419.94
2025	708.14	0.13	0.02	717.27
2026	533.17	0.09	0.01	539.56
Total	1,654.84	0.30	0.04	1,676.77

Source: CalEEMod Version 2020.4.0.

Notes: GHG = greenhouse gas; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent. See Appendix A for complete results. <0.01 = reported value is less than 0.01.

As shown in Table 9, the estimated total GHG emissions from construction of the Project would be 1,677 MT CO₂e. When amortized over 30 years, the estimated annual GHG emissions from construction of the Project would be 56 MT CO₂e per year.

Operation

Tables 10 and 11 present the estimated annual GHG operational emissions associated with the existing land uses and the Net Project emissions, including total operational plus amortized construction emissions.

Table 10. Summary of Estimated Annual GHG Emissions - Existing Land Uses

Emissions Source	MT CO ₂	MT CH ₄	MT N ₂ O	MT CO ₂ e
Area	<0.01	<0.01	0	<0.01
Energy	182.80	0.01	<0.01	183.50
Mobile	1,805.55	0.15	0.09	1,836.60
Waste	12.52	0.74	0	31.02
Water	22.52	0.14	<0.01	27.14
Total Project Emissions				2,078.26

Source: See Appendix A for complete results.

Notes: GHG = greenhouse gas; MT = metric tons; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent. <0.01 = reported value is less than 0.01. Emissions presented represent the “mitigated” output in CalEEMod.

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Table 11. Summary of Estimated Annual GHG Emissions - Net Project Emissions

Emissions Source	MT CO ₂	MT CH ₄	MT N ₂ O	MT CO _{2e}
Area	2.65	<0.01	0	2.71
Energy	539.42	0.03	0.01	541.77
Mobile	1,700.14	0.14	0.08	1,728.78
Waste	36.89	2.18	0	91.40
Water	89.92	0.57	0.01	108.31
<i>Amortized Construction Emissions</i>				55.89
Total Project Emissions				2,528.86
Net Emissions (Project - Existing)				450.60

Source: See Appendix A for complete results.

Notes: GHG = greenhouse gas; MT = metric tons; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO_{2e} = carbon dioxide equivalent. <0.01 = reported value is less than 0.01. Emissions presented represent the “mitigated” output in CalEEMod.

As shown in Table 11, construction and operation of the Project is estimated to result in a net GHG emissions of approximately 451 MT CO_{2e} per year.

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4 Literature Cited

CAPCOA. 2022. *California Emissions Estimator Model (CalEEMod) User's Guide Version 2020.4.0*. Prepared by Trinity Consultants and the California Air Districts. <https://caleemod.com/>



Attachment A

CalEEMod Output File

Existing Land Use

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

**Carlsbad Village AQ and GHG Analysis - Existing
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	120.00	1000sqft	2.75	120,000.00	0
Regional Shopping Center	58.75	1000sqft	1.35	58,750.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per applicant information- Existing facilities and operational analysis only.
- Construction Phase - Operational analysis only.
- Trips and VMT - Operational analysis only
- Demolition - operational analysis only
- Grading - operational analysis only
- Architectural Coating - Compliance with SDAPCD Rule 67.0.1
- Vehicle Trips - Based on traffic analysis.
- Woodstoves - No wood or gas fireplaces or appliances.
- Area Coating - SDAPCD Rule 67.0.1
- Energy Use - default values

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	ST_TR	46.12	71.72
tblVehicleTrips	SU_TR	21.10	32.81
tblVehicleTrips	WD_TR	37.75	58.70

2.0 Emissions Summary

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.2291	0.2291
		Highest	0.2291	0.2291

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003
Energy	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	182.8019	182.8019	0.0109	1.4300e-003	183.5001
Mobile	1.2355	1.1736	10.1041	0.0195	2.1909	0.0156	2.2064	0.5847	0.0145	0.5992	0.0000	1,805.5485	1,805.5485	0.1493	0.0917	1,836.5977
Waste						0.0000	0.0000		0.0000	0.0000	12.5225	0.0000	12.5225	0.7401	0.0000	31.0240
Water						0.0000	0.0000		0.0000	0.0000	1.3806	21.1368	22.5174	0.1431	3.5000e-003	27.1392
Total	1.4888	1.1800	10.1111	0.0196	2.1909	0.0161	2.2069	0.5847	0.0150	0.5997	13.9031	2,009.4904	2,023.3935	1.0433	0.0966	2,078.2644

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003
Energy	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	182.8019	182.8019	0.0109	1.4300e-003	183.5001
Mobile	1.2355	1.1736	10.1041	0.0195	2.1909	0.0156	2.2064	0.5847	0.0145	0.5992	0.0000	1,805.5485	1,805.5485	0.1493	0.0917	1,836.5977
Waste						0.0000	0.0000		0.0000	0.0000	12.5225	0.0000	12.5225	0.7401	0.0000	31.0240
Water						0.0000	0.0000		0.0000	0.0000	1.3806	21.1368	22.5174	0.1431	3.5000e-003	27.1392
Total	1.4888	1.1800	10.1111	0.0196	2.1909	0.0161	2.2069	0.5847	0.0150	0.5997	13.9031	2,009.4904	2,023.3935	1.0433	0.0966	2,078.2644

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/27/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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: 2.75

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	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	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	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	1.2355	1.1736	10.1041	0.0195	2.1909	0.0156	2.2064	0.5847	0.0145	0.5992	0.0000	1,805.5485	1,805.5485	0.1493	0.0917	1,836.5977
Unmitigated	1.2355	1.1736	10.1041	0.0195	2.1909	0.0156	2.2064	0.5847	0.0145	0.5992	0.0000	1,805.5485	1,805.5485	0.1493	0.0917	1,836.5977

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106
Total	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Regional Shopping Center	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8420	175.8420	0.0108	1.3000e-003	176.4988
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8420	175.8420	0.0108	1.3000e-003	176.4988
NaturalGas Mitigated	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013
NaturalGas Unmitigated	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	130425	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013
Total		7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	130425	7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013
Total		7.0000e-004	6.3900e-003	5.3700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	6.9600	6.9600	1.3000e-004	1.3000e-004	7.0013

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	717925	175.8420	0.0108	1.3000e-003	176.4988
Total		175.8420	0.0108	1.3000e-003	176.4988

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	717925	175.8420	0.0108	1.3000e-003	176.4988
Total		175.8420	0.0108	1.3000e-003	176.4988

6.0 Area Detail

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003
Unmitigated	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003
Total	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	0.0153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003
Total	0.2526	1.0000e-005	1.6400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1900e-003	3.1900e-003	1.0000e-005	0.0000	3.4000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	22.5174	0.1431	3.5000e-003	27.1392
Unmitigated	22.5174	0.1431	3.5000e-003	27.1392

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.35176 / 2.66721	22.5174	0.1431	3.5000e-003	27.1392
Total		22.5174	0.1431	3.5000e-003	27.1392

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	4.35176 / 2.66721	22.5174	0.1431	3.5000e-003	27.1392
Total		22.5174	0.1431	3.5000e-003	27.1392

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.5225	0.7401	0.0000	31.0240
Unmitigated	12.5225	0.7401	0.0000	31.0240

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	61.69	12.5225	0.7401	0.0000	31.0240
Total		12.5225	0.7401	0.0000	31.0240

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	61.69	12.5225	0.7401	0.0000	31.0240
Total		12.5225	0.7401	0.0000	31.0240

9.0 Operational Offroad

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Annual

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

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

**Carlsbad Village AQ and GHG Analysis - Existing
San Diego County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	120.00	1000sqft	2.75	120,000.00	0
Regional Shopping Center	58.75	1000sqft	1.35	58,750.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per applicant information- Existing facilities and operational analysis only.
- Construction Phase - Operational analysis only.
- Trips and VMT - Operational analysis only
- Demolition - operational analysis only
- Grading - operational analysis only
- Architectural Coating - Compliance with SDAPCD Rule 67.0.1
- Vehicle Trips - Based on traffic analysis.
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

Woodstoves - No wood or gas fireplaces or appliances.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - default values

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	ST_TR	46.12	71.72
tblVehicleTrips	SU_TR	21.10	32.81
tblVehicleTrips	WD_TR	37.75	58.70

2.0 Emissions Summary

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Mobile	9.0764	7.5956	68.3482	0.1405	15.5508	0.1080	15.6588	4.1423	0.1006	4.2429		14,323.8088	14,323.8088	1.0868	0.6708	14,550.8860
Total	10.4655	7.6308	68.3958	0.1407	15.5508	0.1107	15.6615	4.1423	0.1033	4.2456		14,365.8866	14,365.8866	1.0877	0.6716	14,593.2161

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Mobile	9.0764	7.5956	68.3482	0.1405	15.5508	0.1080	15.6588	4.1423	0.1006	4.2429		14,323.8088	14,323.8088	1.0868	0.6708	14,550.8860
Total	10.4655	7.6308	68.3958	0.1407	15.5508	0.1107	15.6615	4.1423	0.1033	4.2456		14,365.8866	14,365.8866	1.0877	0.6716	14,593.2161

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/27/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.75

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	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	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	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

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

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

3.2 Demolition - 2023

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	9.0764	7.5956	68.3482	0.1405	15.5508	0.1080	15.6588	4.1423	0.1006	4.2429		14,323.8088	14,323.8088	1.0868	0.6708	14,550.8860
Unmitigated	9.0764	7.5956	68.3482	0.1405	15.5508	0.1080	15.6588	4.1423	0.1006	4.2429		14,323.8088	14,323.8088	1.0868	0.6708	14,550.8860

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106
Total	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	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
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Regional Shopping Center	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
NaturalGas Unmitigated	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	357.329	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Total		3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.357329	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Total		3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Unmitigated	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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

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	0.0838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	0.0838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

7.0 Water Detail

7.1 Mitigation Measures Water

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

**Carlsbad Village AQ and GHG Analysis - Existing
San Diego County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	120.00	1000sqft	2.75	120,000.00	0
Regional Shopping Center	58.75	1000sqft	1.35	58,750.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per applicant information- Existing facilities and operational analysis only.
- Construction Phase - Operational analysis only.
- Trips and VMT - Operational analysis only
- Demolition - operational analysis only
- Grading - operational analysis only
- Architectural Coating - Compliance with SDAPCD Rule 67.0.1
- Vehicle Trips - Based on traffic analysis.
- Vehicle Emission Factors -
- Vehicle Emission Factors -
- Vehicle Emission Factors -

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

Woodstoves - No wood or gas fireplaces or appliances.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - default values

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - SDAPCD Rule 67.0.1

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleTrips	ST_TR	46.12	71.72
tblVehicleTrips	SU_TR	21.10	32.81
tblVehicleTrips	WD_TR	37.75	58.70

2.0 Emissions Summary

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Mobile	8.7318	8.2453	71.8636	0.1345	15.5508	0.1080	15.6589	4.1423	0.1007	4.2430		13,719.9172	13,719.9172	1.1662	0.7088	13,960.2830
Total	10.1209	8.2804	71.9112	0.1348	15.5508	0.1108	15.6616	4.1423	0.1034	4.2457		13,761.9950	13,761.9950	1.1671	0.7095	14,002.6132

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Energy	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Mobile	8.7318	8.2453	71.8636	0.1345	15.5508	0.1080	15.6589	4.1423	0.1007	4.2430		13,719.9172	13,719.9172	1.1662	0.7088	13,960.2830
Total	10.1209	8.2804	71.9112	0.1348	15.5508	0.1108	15.6616	4.1423	0.1034	4.2457		13,761.9950	13,761.9950	1.1671	0.7095	14,002.6132

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/27/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.75

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	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	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	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

Water Exposed Area

3.2 Demolition - 2023

Unmitigated Construction On-Site

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

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

3.2 Demolition - 2023

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.7318	8.2453	71.8636	0.1345	15.5508	0.1080	15.6589	4.1423	0.1007	4.2430		13,719.9172	13,719.9172	1.1662	0.7088	13,960.2830
Unmitigated	8.7318	8.2453	71.8636	0.1345	15.5508	0.1080	15.6589	4.1423	0.1007	4.2430		13,719.9172	13,719.9172	1.1662	0.7088	13,960.2830

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Regional Shopping Center	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106
Total	3,448.63	4,213.55	1,927.59	5,857,106	5,857,106

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	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
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Regional Shopping Center	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
NaturalGas Unmitigated	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	357.329	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Total		3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.357329	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885
Total		3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003		42.0387	42.0387	8.1000e-004	7.7000e-004	42.2885

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Unmitigated	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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

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	0.0838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

Carlsbad Village AQ and GHG Analysis - Existing - San Diego 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	0.0838					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6800e-003	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417
Total	1.3852	1.6000e-004	0.0182	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0391	0.0391	1.0000e-004		0.0417

7.0 Water Detail

7.1 Mitigation Measures Water

Carlsbad Village AQ and GHG Analysis - Existing - San Diego County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Proposed Project

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

**Carlsbad Village Analysis for HRA Analysis Only
San Diego County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.32	Acre	0.32	13,939.20	0
Parking Lot	55.00	Space	0.49	22,000.00	0
Unenclosed Parking with Elevator	295.00	Space	0.58	118,000.00	0
City Park	1.08	Acre	1.08	46,988.17	0
Health Club	6.21	1000sqft	0.14	6,205.00	0
Quality Restaurant	6.00	1000sqft	0.14	6,000.00	0
Recreational Swimming Pool	1.00	1000sqft	0.02	1,000.00	0
Apartments Mid Rise	218.00	Dwelling Unit	1.18	258,000.00	623
Supermarket	5.80	1000sqft	0.13	5,800.00	0
Strip Mall	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project includes Tier4i equipment as project design feature.

Land Use - Per applicant information

Construction Phase - Per applicant provided construction schedule.

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information.

Trips and VMT - Default, rounded up to even values to include arrival and departure trips. Vendor tips added for demo, site prep and grading for dust suppression activities.

Demolition - Based on 58,750 sqft of existing building and 120,000 sqft of paved surfaces

Grading - Assumed that materials are balanced on site, previously developed site.

Architectural Coating - Compliance with SDAPCD Rule 67.0.1

Vehicle Trips - Based on traffic analysis.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas fireplaces or appliances.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - default values

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation - Per applicant PDFs

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,003.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,008.00	30,000.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	174,150.00	171,047.00

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

tblArchitecturalCoating	ConstArea_Residential_Interior	522,450.00	513,141.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaCoating	Area_Nonresidential_Exterior	10003	10000
tblAreaCoating	Area_Nonresidential_Interior	30008	30000
tblAreaCoating	Area_Residential_Exterior	174150	171047
tblAreaCoating	Area_Residential_Interior	522450	513141
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	8.00	25.00
tblConstructionPhase	NumDays	230.00	625.00
tblConstructionPhase	NumDays	18.00	103.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	119.90	0.00
tblFireplaces	NumberNoFireplace	21.80	0.00
tblFireplaces	NumberWood	76.30	0.00
tblGrading	AcresOfGrading	112.50	8.00
tblGrading	AcresOfGrading	7.00	7.50
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	47,044.80	46,988.17
tblLandUse	LandUseSquareFeet	6,210.00	6,205.00
tblLandUse	LandUseSquareFeet	218,000.00	258,000.00
tblLandUse	LotAcreage	2.65	0.58
tblLandUse	LotAcreage	5.74	1.18
tblOffRoadEquipment	HorsePower	63.00	89.00
tblOffRoadEquipment	LoadFactor	0.31	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	125.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	60.00	36.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	249.00	160.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	4.91	5.42
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	90.04	107.40
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.94
tblVehicleTrips	ST_TR	177.62	249.51
tblVehicleTrips	SU_TR	4.09	4.51
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	71.97	85.84
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	18.44
tblVehicleTrips	SU_TR	166.47	233.85
tblVehicleTrips	WD_TR	5.44	6.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	83.84	100.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	40.00
tblVehicleTrips	WD_TR	106.78	150.00

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

tblWoodstoves	NumberCatalytic	10.90	0.00
tblWoodstoves	NumberNoncatalytic	10.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1706	1.7294	1.7997	4.5800e-003	0.2496	0.0613	0.3108	0.0655	0.0570	0.1225	0.0000	413.5352	413.5352	0.0845	0.0144	419.9406
2025	0.2521	2.3405	3.6339	7.8800e-003	0.2388	0.0736	0.3123	0.0643	0.0689	0.1332	0.0000	708.1417	708.1417	0.1275	0.0200	717.2739
2026	1.0632	1.7867	2.7939	5.9500e-003	0.1795	0.0588	0.2383	0.0483	0.0556	0.1039	0.0000	533.1702	533.1702	0.0911	0.0138	539.5610
Maximum	1.0632	2.3405	3.6339	7.8800e-003	0.2496	0.0736	0.3123	0.0655	0.0689	0.1332	0.0000	708.1417	708.1417	0.1275	0.0200	717.2739

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0837	1.2578	2.1986	4.5800e-003	0.1645	7.6700e-003	0.1722	0.0436	7.4800e-003	0.0511	0.0000	413.5349	413.5349	0.0845	0.0144	419.9403
2025	0.1708	2.2196	4.0665	7.8800e-003	0.2388	0.0132	0.2520	0.0643	0.0128	0.0771	0.0000	708.1412	708.1412	0.1275	0.0200	717.2734
2026	0.9901	1.7023	3.1006	5.9500e-003	0.1795	0.0104	0.1898	0.0483	0.0101	0.0583	0.0000	533.1697	533.1697	0.0911	0.0138	539.5606
Maximum	0.9901	2.2196	4.0665	7.8800e-003	0.2388	0.0132	0.2520	0.0643	0.0128	0.0771	0.0000	708.1412	708.1412	0.1275	0.0200	717.2734

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	16.24	11.56	-13.83	0.00	12.73	83.86	28.72	12.30	83.30	48.13	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	7-1-2024	9-30-2024	1.1960	0.7286
2	10-1-2024	12-31-2024	0.6958	0.6077
3	1-1-2025	3-31-2025	0.6410	0.5912
4	4-1-2025	6-30-2025	0.6432	0.5928
5	7-1-2025	9-30-2025	0.6503	0.5993
6	10-1-2025	12-31-2025	0.6553	0.6043
7	1-1-2026	3-31-2026	0.6386	0.5888
8	4-1-2026	6-30-2026	1.4384	1.3670
9	7-1-2026	9-30-2026	0.7664	0.7302
		Highest	1.4384	1.3670

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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	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145
Energy	0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	539.4162	539.4162	0.0266	5.6600e-003	541.7669
Mobile	1.1183	1.0858	9.3432	0.0184	2.0688	0.0146	2.0833	0.5521	0.0136	0.5657	0.0000	1,700.1365	1,700.1365	0.1371	0.0846	1,728.7836
Waste						0.0000	0.0000		0.0000	0.0000	36.8936	0.0000	36.8936	2.1804	0.0000	91.4024
Water						0.0000	0.0000		0.0000	0.0000	5.4930	84.4226	89.9156	0.5694	0.0140	108.3055
Total	2.3648	1.2396	11.0469	0.0193	2.0688	0.0342	2.1029	0.5521	0.0332	0.5853	42.3866	2,326.6260	2,369.0126	2.9159	0.1042	2,472.9728

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145
Energy	0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	539.4162	539.4162	0.0266	5.6600e-003	541.7669
Mobile	1.1183	1.0858	9.3432	0.0184	2.0688	0.0146	2.0833	0.5521	0.0136	0.5657	0.0000	1,700.1365	1,700.1365	0.1371	0.0846	1,728.7836
Waste						0.0000	0.0000		0.0000	0.0000	36.8936	0.0000	36.8936	2.1804	0.0000	91.4024
Water						0.0000	0.0000		0.0000	0.0000	5.4930	84.4226	89.9156	0.5694	0.0140	108.3055
Total	2.3648	1.2396	11.0469	0.0193	2.0688	0.0342	2.1029	0.5521	0.0332	0.5853	42.3866	2,326.6260	2,369.0126	2.9159	0.1042	2,472.9728

	ROG	NOx	CO	SO2	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	7/1/2024	7/29/2024	6	25	
2	Site Preparation	Site Preparation	7/30/2024	8/6/2024	6	7	
3	Grading	Grading	8/7/2024	9/4/2024	6	25	

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4	Building Construction	Building Construction	9/5/2024	9/3/2026	6	625
5	Architectural Coating	Architectural Coating	4/1/2026	7/29/2026	6	103
6	Paving	Paving	7/1/2026	7/15/2026	6	13

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.39

Residential Indoor: 513,141; Residential Outdoor: 171,047; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 9,236 (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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Aerial Lifts	3	8.00	89	0.20
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36

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Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	4	8.00	6	0.82
Paving	Skid Steer Loaders	1	8.00	65	0.37

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	5	16.00	4.00	948.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	160.00	36.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	40.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	20.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

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

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.1038	0.0000	0.1038	0.0157	0.0000	0.0157	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.2434	0.2055	4.2000e-004		0.0111	0.0111		0.0104	0.0104	0.0000	36.8222	36.8222	0.0101	0.0000	37.0735
Total	0.0258	0.2434	0.2055	4.2000e-004	0.1038	0.0111	0.1150	0.0157	0.0104	0.0261	0.0000	36.8222	36.8222	0.0101	0.0000	37.0735

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0638	0.0174	2.8000e-004	8.1200e-003	5.3000e-004	8.6500e-003	2.2300e-003	5.1000e-004	2.7400e-003	0.0000	27.9463	27.9463	1.4800e-003	4.4500e-003	29.3086
Vendor	6.0000e-005	2.2000e-003	7.6000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9858	0.9858	3.0000e-005	1.4000e-004	1.0291
Worker	5.1000e-004	3.4000e-004	4.2600e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2276	1.2276	3.0000e-005	3.0000e-005	1.2383
Total	1.6000e-003	0.0663	0.0224	3.0000e-004	0.0101	5.5000e-004	0.0106	2.7600e-003	5.3000e-004	3.2800e-003	0.0000	30.1597	30.1597	1.5400e-003	4.6200e-003	31.5760

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

3.2 Demolition - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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					0.0467	0.0000	0.0467	7.0800e-003	0.0000	7.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5100e-003	0.1410	0.2595	4.2000e-004		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	36.8221	36.8221	0.0101	0.0000	37.0735
Total	6.5100e-003	0.1410	0.2595	4.2000e-004	0.0467	6.6000e-004	0.0474	7.0800e-003	6.6000e-004	7.7400e-003	0.0000	36.8221	36.8221	0.0101	0.0000	37.0735

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0300e-003	0.0638	0.0174	2.8000e-004	8.1200e-003	5.3000e-004	8.6500e-003	2.2300e-003	5.1000e-004	2.7400e-003	0.0000	27.9463	27.9463	1.4800e-003	4.4500e-003	29.3086
Vendor	6.0000e-005	2.2000e-003	7.6000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9858	0.9858	3.0000e-005	1.4000e-004	1.0291
Worker	5.1000e-004	3.4000e-004	4.2600e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2276	1.2276	3.0000e-005	3.0000e-005	1.2383
Total	1.6000e-003	0.0663	0.0224	3.0000e-004	0.0101	5.5000e-004	0.0106	2.7600e-003	5.3000e-004	3.2800e-003	0.0000	30.1597	30.1597	1.5400e-003	4.6200e-003	31.5760

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3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0461	0.0000	0.0461	0.0236	0.0000	0.0236	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3700e-003	0.0550	0.0297	7.0000e-005		2.4800e-003	2.4800e-003		2.2800e-003	2.2800e-003	0.0000	6.2097	6.2097	2.0100e-003	0.0000	6.2599
Total	5.3700e-003	0.0550	0.0297	7.0000e-005	0.0461	2.4800e-003	0.0486	0.0236	2.2800e-003	0.0259	0.0000	6.2097	6.2097	2.0100e-003	0.0000	6.2599

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	6.2000e-004	2.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2760	0.2760	1.0000e-005	4.0000e-005	0.2882
Worker	1.6000e-004	1.1000e-004	1.3400e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3867	0.3867	1.0000e-005	1.0000e-005	0.3901
Total	1.8000e-004	7.3000e-004	1.5500e-003	0.0000	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.6627	0.6627	2.0000e-005	5.0000e-005	0.6782

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3.3 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0208	0.0000	0.0208	0.0106	0.0000	0.0106	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2200e-003	0.0205	0.0399	7.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	6.2097	6.2097	2.0100e-003	0.0000	6.2599
Total	1.2200e-003	0.0205	0.0399	7.0000e-005	0.0208	1.2000e-004	0.0209	0.0106	1.2000e-004	0.0107	0.0000	6.2097	6.2097	2.0100e-003	0.0000	6.2599

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	6.2000e-004	2.1000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2760	0.2760	1.0000e-005	4.0000e-005	0.2882
Worker	1.6000e-004	1.1000e-004	1.3400e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.3867	0.3867	1.0000e-005	1.0000e-005	0.3901
Total	1.8000e-004	7.3000e-004	1.5500e-003	0.0000	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.6627	0.6627	2.0000e-005	5.0000e-005	0.6782

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3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5900e-003	0.0000	4.5900e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0499	0.5174	0.3369	1.0000e-003		0.0197	0.0197		0.0181	0.0181	0.0000	88.1799	88.1799	0.0285	0.0000	88.8928
Total	0.0499	0.5174	0.3369	1.0000e-003	4.5900e-003	0.0197	0.0242	5.1000e-004	0.0181	0.0186	0.0000	88.1799	88.1799	0.0285	0.0000	88.8928

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	6.8000e-004	0.0420	0.0114	1.8000e-004	5.3500e-003	3.5000e-004	5.7000e-003	1.4700e-003	3.3000e-004	1.8000e-003	0.0000	18.4245	18.4245	9.7000e-004	2.9300e-003	19.3227
Vendor	6.0000e-005	2.2000e-003	7.6000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9858	0.9858	3.0000e-005	1.4000e-004	1.0291
Worker	5.1000e-004	3.4000e-004	4.2600e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2276	1.2276	3.0000e-005	3.0000e-005	1.2383
Total	1.2500e-003	0.0446	0.0165	2.0000e-004	7.2800e-003	3.7000e-004	7.6600e-003	2.0000e-003	3.5000e-004	2.3400e-003	0.0000	20.6379	20.6379	1.0300e-003	3.1000e-003	21.5900

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

3.4 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0700e-003	0.0000	2.0700e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0165	0.2655	0.5352	1.0000e-003		1.6500e-003	1.6500e-003		1.6500e-003	1.6500e-003	0.0000	88.1797	88.1797	0.0285	0.0000	88.8927
Total	0.0165	0.2655	0.5352	1.0000e-003	2.0700e-003	1.6500e-003	3.7200e-003	2.3000e-004	1.6500e-003	1.8800e-003	0.0000	88.1797	88.1797	0.0285	0.0000	88.8927

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	6.8000e-004	0.0420	0.0114	1.8000e-004	5.3500e-003	3.5000e-004	5.7000e-003	1.4700e-003	3.3000e-004	1.8000e-003	0.0000	18.4245	18.4245	9.7000e-004	2.9300e-003	19.3227
Vendor	6.0000e-005	2.2000e-003	7.6000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.5000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	0.9858	0.9858	3.0000e-005	1.4000e-004	1.0291
Worker	5.1000e-004	3.4000e-004	4.2600e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2276	1.2276	3.0000e-005	3.0000e-005	1.2383
Total	1.2500e-003	0.0446	0.0165	2.0000e-004	7.2800e-003	3.7000e-004	7.6600e-003	2.0000e-003	3.5000e-004	2.3400e-003	0.0000	20.6379	20.6379	1.0300e-003	3.1000e-003	21.5900

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3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0639	0.7069	0.9869	1.6600e-003		0.0262	0.0262		0.0246	0.0246	0.0000	144.8316	144.8316	0.0388	0.0000	145.8008
Total	0.0639	0.7069	0.9869	1.6600e-003		0.0262	0.0262		0.0246	0.0246	0.0000	144.8316	144.8316	0.0388	0.0000	145.8008

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	2.0000e-005	1.3600e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5955	0.5955	3.0000e-005	9.0000e-005	0.6245
Vendor	2.0500e-003	0.0802	0.0278	3.7000e-004	0.0121	4.8000e-004	0.0126	3.4900e-003	4.6000e-004	3.9400e-003	0.0000	35.8429	35.8429	1.1300e-003	5.1900e-003	37.4186
Worker	0.0205	0.0136	0.1720	5.4000e-004	0.0648	3.4000e-004	0.0651	0.0172	3.1000e-004	0.0175	0.0000	49.5933	49.5933	1.3900e-003	1.3400e-003	50.0262
Total	0.0226	0.0951	0.2002	9.2000e-004	0.0770	8.3000e-004	0.0779	0.0208	7.8000e-004	0.0215	0.0000	86.0317	86.0317	2.5500e-003	6.6200e-003	88.0693

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3.5 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	tons/yr										MT/yr					
Off-Road	0.0338	0.6240	1.1235	1.6600e-003		3.4900e-003	3.4900e-003		3.3900e-003	3.3900e-003	0.0000	144.8315	144.8315	0.0388	0.0000	145.8006
Total	0.0338	0.6240	1.1235	1.6600e-003		3.4900e-003	3.4900e-003		3.3900e-003	3.3900e-003	0.0000	144.8315	144.8315	0.0388	0.0000	145.8006

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	2.0000e-005	1.3600e-003	3.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5955	0.5955	3.0000e-005	9.0000e-005	0.6245
Vendor	2.0500e-003	0.0802	0.0278	3.7000e-004	0.0121	4.8000e-004	0.0126	3.4900e-003	4.6000e-004	3.9400e-003	0.0000	35.8429	35.8429	1.1300e-003	5.1900e-003	37.4186
Worker	0.0205	0.0136	0.1720	5.4000e-004	0.0648	3.4000e-004	0.0651	0.0172	3.1000e-004	0.0175	0.0000	49.5933	49.5933	1.3900e-003	1.3400e-003	50.0262
Total	0.0226	0.0951	0.2002	9.2000e-004	0.0770	8.3000e-004	0.0779	0.0208	7.8000e-004	0.0215	0.0000	86.0317	86.0317	2.5500e-003	6.6200e-003	88.0693

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3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1860	2.0523	3.0483	5.1300e-003		0.0711	0.0711		0.0666	0.0666	0.0000	448.9112	448.9112	0.1199	0.0000	451.9073
Total	0.1860	2.0523	3.0483	5.1300e-003		0.0711	0.0711		0.0666	0.0666	0.0000	448.9112	448.9112	0.1199	0.0000	451.9073

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	7.0000e-005	4.1500e-003	1.1600e-003	2.0000e-005	5.4000e-004	3.0000e-005	5.7000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	1.8080	1.8080	1.0000e-004	2.9000e-004	1.8963
Vendor	6.1600e-003	0.2460	0.0848	1.1100e-003	0.0374	1.4800e-003	0.0389	0.0108	1.4100e-003	0.0122	0.0000	108.9601	108.9601	3.5800e-003	0.0158	113.7514
Worker	0.0599	0.0381	0.4997	1.6200e-003	0.2008	1.0000e-003	0.2018	0.0534	9.2000e-004	0.0543	0.0000	148.4625	148.4625	3.9200e-003	3.8900e-003	149.7189
Total	0.0662	0.2882	0.5856	2.7500e-003	0.2388	2.5100e-003	0.2413	0.0643	2.3600e-003	0.0667	0.0000	259.2306	259.2306	7.6000e-003	0.0200	265.3666

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3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1046	1.9314	3.4809	5.1300e-003		0.0107	0.0107		0.0104	0.0104	0.0000	448.9106	448.9106	0.1199	0.0000	451.9068
Total	0.1046	1.9314	3.4809	5.1300e-003		0.0107	0.0107		0.0104	0.0104	0.0000	448.9106	448.9106	0.1199	0.0000	451.9068

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	7.0000e-005	4.1500e-003	1.1600e-003	2.0000e-005	5.4000e-004	3.0000e-005	5.7000e-004	1.5000e-004	3.0000e-005	1.8000e-004	0.0000	1.8080	1.8080	1.0000e-004	2.9000e-004	1.8963
Vendor	6.1600e-003	0.2460	0.0848	1.1100e-003	0.0374	1.4800e-003	0.0389	0.0108	1.4100e-003	0.0122	0.0000	108.9601	108.9601	3.5800e-003	0.0158	113.7514
Worker	0.0599	0.0381	0.4997	1.6200e-003	0.2008	1.0000e-003	0.2018	0.0534	9.2000e-004	0.0543	0.0000	148.4625	148.4625	3.9200e-003	3.8900e-003	149.7189
Total	0.0662	0.2882	0.5856	2.7500e-003	0.2388	2.5100e-003	0.2413	0.0643	2.3600e-003	0.0667	0.0000	259.2306	259.2306	7.6000e-003	0.0200	265.3666

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3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1254	1.3835	2.0549	3.4600e-003		0.0479	0.0479		0.0449	0.0449	0.0000	302.6206	302.6206	0.0808	0.0000	304.6404
Total	0.1254	1.3835	2.0549	3.4600e-003		0.0479	0.0479		0.0449	0.0449	0.0000	302.6206	302.6206	0.0808	0.0000	304.6404

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.7600e-003	7.9000e-004	1.0000e-005	3.6000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.1934	1.1934	7.0000e-005	1.9000e-004	1.2518
Vendor	4.0400e-003	0.1640	0.0564	7.3000e-004	0.0252	9.9000e-004	0.0262	7.2800e-003	9.4000e-004	8.2300e-003	0.0000	72.0500	72.0500	2.4800e-003	0.0104	75.2196
Worker	0.0382	0.0235	0.3176	1.0600e-003	0.1354	6.4000e-004	0.1360	0.0360	5.9000e-004	0.0366	0.0000	96.9547	96.9547	2.4200e-003	2.4800e-003	97.7533
Total	0.0423	0.1902	0.3748	1.8000e-003	0.1609	1.6500e-003	0.1626	0.0434	1.5500e-003	0.0449	0.0000	170.1981	170.1981	4.9700e-003	0.0131	174.2246

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3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0705	1.3020	2.3466	3.4600e-003		7.2200e-003	7.2200e-003		7.0200e-003	7.0200e-003	0.0000	302.6203	302.6203	0.0808	0.0000	304.6401
Total	0.0705	1.3020	2.3466	3.4600e-003		7.2200e-003	7.2200e-003		7.0200e-003	7.0200e-003	0.0000	302.6203	302.6203	0.0808	0.0000	304.6401

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.7600e-003	7.9000e-004	1.0000e-005	3.6000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.1934	1.1934	7.0000e-005	1.9000e-004	1.2518
Vendor	4.0400e-003	0.1640	0.0564	7.3000e-004	0.0252	9.9000e-004	0.0262	7.2800e-003	9.4000e-004	8.2300e-003	0.0000	72.0500	72.0500	2.4800e-003	0.0104	75.2196
Worker	0.0382	0.0235	0.3176	1.0600e-003	0.1354	6.4000e-004	0.1360	0.0360	5.9000e-004	0.0366	0.0000	96.9547	96.9547	2.4200e-003	2.4800e-003	97.7533
Total	0.0423	0.1902	0.3748	1.8000e-003	0.1609	1.6500e-003	0.1626	0.0434	1.5500e-003	0.0449	0.0000	170.1981	170.1981	4.9700e-003	0.0131	174.2246

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3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.1573	0.2485	4.1000e-004		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	35.0647	35.0647	1.9100e-003	0.0000	35.1125
Total	0.8840	0.1573	0.2485	4.1000e-004		7.0700e-003	7.0700e-003		7.0700e-003	7.0700e-003	0.0000	35.0647	35.0647	1.9100e-003	0.0000	35.1125

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.4500e-003	1.5300e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	2.0000e-004	3.0000e-005	2.2000e-004	0.0000	1.9540	1.9540	7.0000e-005	2.8000e-004	2.0399
Worker	4.6600e-003	2.8600e-003	0.0388	1.3000e-004	0.0165	8.0000e-005	0.0166	4.3900e-003	7.0000e-005	4.4600e-003	0.0000	11.8322	11.8322	3.0000e-004	3.0000e-004	11.9296
Total	4.7700e-003	7.3100e-003	0.0403	1.5000e-004	0.0172	1.1000e-004	0.0173	4.5900e-003	1.0000e-004	4.6800e-003	0.0000	13.7861	13.7861	3.7000e-004	5.8000e-004	13.9695

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3.6 Architectural Coating - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8606					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4800e-003	0.1456	0.2517	4.1000e-004		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	35.0646	35.0646	1.9100e-003	0.0000	35.1125
Total	0.8680	0.1456	0.2517	4.1000e-004		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	35.0646	35.0646	1.9100e-003	0.0000	35.1125

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.4500e-003	1.5300e-003	2.0000e-005	6.8000e-004	3.0000e-005	7.1000e-004	2.0000e-004	3.0000e-005	2.2000e-004	0.0000	1.9540	1.9540	7.0000e-005	2.8000e-004	2.0399
Worker	4.6600e-003	2.8600e-003	0.0388	1.3000e-004	0.0165	8.0000e-005	0.0166	4.3900e-003	7.0000e-005	4.4600e-003	0.0000	11.8322	11.8322	3.0000e-004	3.0000e-004	11.9296
Total	4.7700e-003	7.3100e-003	0.0403	1.5000e-004	0.0172	1.1000e-004	0.0173	4.5900e-003	1.0000e-004	4.6800e-003	0.0000	13.7861	13.7861	3.7000e-004	5.8000e-004	13.9695

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

3.7 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3300e-003	0.0465	0.0725	1.2000e-004		2.0800e-003	2.0800e-003		1.9500e-003	1.9500e-003	0.0000	10.0141	10.0141	2.9800e-003	0.0000	10.0887
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.3900e-003	0.0465	0.0725	1.2000e-004		2.0800e-003	2.0800e-003		1.9500e-003	1.9500e-003	0.0000	10.0141	10.0141	2.9800e-003	0.0000	10.0887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.6800e-003	5.8000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7399	0.7399	3.0000e-005	1.1000e-004	0.7724
Worker	2.9000e-004	1.8000e-004	2.4500e-003	1.0000e-005	1.0400e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.7467	0.7467	2.0000e-005	2.0000e-005	0.7528
Total	3.3000e-004	1.8600e-003	3.0300e-003	2.0000e-005	1.3000e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.4865	1.4865	5.0000e-005	1.3000e-004	1.5252

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3.7 Paving - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0700e-003	0.0554	0.0843	1.2000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	10.0141	10.0141	2.9800e-003	0.0000	10.0887
Paving	1.0600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1300e-003	0.0554	0.0843	1.2000e-004		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	10.0141	10.0141	2.9800e-003	0.0000	10.0887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.6800e-003	5.8000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7399	0.7399	3.0000e-005	1.1000e-004	0.7724
Worker	2.9000e-004	1.8000e-004	2.4500e-003	1.0000e-005	1.0400e-003	0.0000	1.0500e-003	2.8000e-004	0.0000	2.8000e-004	0.0000	0.7467	0.7467	2.0000e-005	2.0000e-005	0.7528
Total	3.3000e-004	1.8600e-003	3.0300e-003	2.0000e-005	1.3000e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.4865	1.4865	5.0000e-005	1.3000e-004	1.5252

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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	1.1183	1.0858	9.3432	0.0184	2.0688	0.0146	2.0833	0.5521	0.0136	0.5657	0.0000	1,700.1365	1,700.1365	0.1371	0.0846	1,728.7836
Unmitigated	1.1183	1.0858	9.3432	0.0184	2.0688	0.0146	2.0833	0.5521	0.0136	0.5657	0.0000	1,700.1365	1,700.1365	0.1371	0.0846	1,728.7836

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,308.00	1,181.56	983.18	3,550,668	3,550,668
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	600.00	644.40	515.04	704,827	704,827
Recreational Swimming Pool	0.00	0.00	0.00		
Supermarket	870.00	1,447.16	1356.33	1,162,384	1,162,384
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	80.00	75.88	36.88	112,810	112,810
Total	2,858.00	3,349.00	2,891.43	5,530,688	5,530,688

4.3 Trip Type Information

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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	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
City Park	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Health Club	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Parking Lot	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Quality Restaurant	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Recreational Swimming Pool	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Supermarket	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Unenclosed Parking with Elevator	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Strip Mall	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	387.2580	387.2580	0.0237	2.8700e-003	388.7045
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	387.2580	387.2580	0.0237	2.8700e-003	388.7045
NaturalGas Mitigated	0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.1582	152.1582	2.9200e-003	2.7900e-003	153.0624
NaturalGas Unmitigated	0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.1582	152.1582	2.9200e-003	2.7900e-003	153.0624

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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	1.58618e+006	8.5500e-003	0.0731	0.0311	4.7000e-004		5.9100e-003	5.9100e-003		5.9100e-003	5.9100e-003	0.0000	84.6446	84.6446	1.6200e-003	1.5500e-003	85.1476
City Park	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
Health Club	71481.6	3.9000e-004	3.5000e-003	2.9400e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.8145	3.8145	7.0000e-005	7.0000e-005	3.8372
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	1.04412e+006	5.6300e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7182	55.7182	1.0700e-003	1.0200e-003	56.0493
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	4440	2.0000e-005	2.2000e-004	1.8000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2369	0.2369	0.0000	0.0000	0.2383
Supermarket	145116	7.8000e-004	7.1100e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7439	7.7439	1.5000e-004	1.4000e-004	7.7900
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.1582	152.1582	2.9100e-003	2.7800e-003	153.0624

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.58618e+006	8.5500e-003	0.0731	0.0311	4.7000e-004		5.9100e-003	5.9100e-003		5.9100e-003	5.9100e-003	0.0000	84.6446	84.6446	1.6200e-003	1.5500e-003	85.1476
City Park	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
Health Club	71481.6	3.9000e-004	3.5000e-003	2.9400e-003	2.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004	0.0000	3.8145	3.8145	7.0000e-005	7.0000e-005	3.8372
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	1.04412e+006	5.6300e-003	0.0512	0.0430	3.1000e-004		3.8900e-003	3.8900e-003		3.8900e-003	3.8900e-003	0.0000	55.7182	55.7182	1.0700e-003	1.0200e-003	56.0493
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	4440	2.0000e-005	2.2000e-004	1.8000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2369	0.2369	0.0000	0.0000	0.2383
Supermarket	145116	7.8000e-004	7.1100e-003	5.9800e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7439	7.7439	1.5000e-004	1.4000e-004	7.7900
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0154	0.1351	0.0832	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	152.1582	152.1582	2.9100e-003	2.7800e-003	153.0624

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5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e MT/yr
Apartments Mid Rise	837151	205.0440	0.0125	1.5200e-003	205.8099
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	50756.9	12.4319	7.6000e-004	9.0000e-005	12.4784
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7700	1.8860	1.2000e-004	1.0000e-005	1.8930
Quality Restaurant	226920	55.5797	3.4000e-003	4.1000e-004	55.7873
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	24440	5.9861	3.7000e-004	4.0000e-005	6.0085
Supermarket	205204	50.2608	3.0700e-003	3.7000e-004	50.4485
Unenclosed Parking with Elevator	228920	56.0696	3.4300e-003	4.2000e-004	56.2790
Total		387.2580	0.0237	2.8600e-003	388.7045

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	837151	205.0440	0.0125	1.5200e-003	205.8099
City Park	0	0.0000	0.0000	0.0000	0.0000
Health Club	50756.9	12.4319	7.6000e-004	9.0000e-005	12.4784
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7700	1.8860	1.2000e-004	1.0000e-005	1.8930
Quality Restaurant	226920	55.5797	3.4000e-003	4.1000e-004	55.7873
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	24440	5.9861	3.7000e-004	4.0000e-005	6.0085
Supermarket	205204	50.2608	3.0700e-003	3.7000e-004	50.4485
Unenclosed Parking with Elevator	228920	56.0696	3.4300e-003	4.2000e-004	56.2790
Total		387.2580	0.0237	2.8600e-003	388.7045

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145
Unmitigated	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145

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	0.0861					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0961					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	0.0489	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145
Total	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145

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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	0.0861					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0961					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	0.0489	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145
Total	1.2311	0.0187	1.6206	9.0000e-005		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	2.6507	2.6507	2.5500e-003	0.0000	2.7145

7.0 Water Detail

7.1 Mitigation Measures Water

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	89.9156	0.5694	0.0140	108.3055
Unmitigated	89.9156	0.5694	0.0140	108.3055

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	14.2036 / 8.95443	74.1714	0.4671	0.0114	89.2589
City Park	0 / 1.2868	3.5016	2.1000e-004	3.0000e-005	3.5147
Health Club	0.367279 / 0.225106	1.9004	0.0121	3.0000e-004	2.2905
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.8212 / 0.116247	6.7024	0.0597	1.4500e-003	8.6264
Recreational Swimming Pool	0.0591431 / 0.036249	0.3060	1.9400e-003	5.0000e-005	0.3688
Strip Mall	0.148145 / 0.0907986	0.7666	4.8700e-003	1.2000e-004	0.9239
Supermarket	0.714956 / 0.022112	2.5672	0.0234	5.7000e-004	3.3223
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		89.9156	0.5693	0.0140	108.3055

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	14.2036 / 8.95443	74.1714	0.4671	0.0114	89.2589
City Park	0 / 1.2868	3.5016	2.1000e-004	3.0000e-005	3.5147
Health Club	0.367279 / 0.225106	1.9004	0.0121	3.0000e-004	2.2905
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.8212 / 0.116247	6.7024	0.0597	1.4500e-003	8.6264
Recreational Swimming Pool	0.0591431 / 0.036249	0.3060	1.9400e-003	5.0000e-005	0.3688
Strip Mall	0.148145 / 0.0907986	0.7666	4.8700e-003	1.2000e-004	0.9239
Supermarket	0.714956 / 0.022112	2.5672	0.0234	5.7000e-004	3.3223
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		89.9156	0.5693	0.0140	108.3055

8.0 Waste Detail

8.1 Mitigation Measures Waste

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	36.8936	2.1804	0.0000	91.4024
Unmitigated	36.8936	2.1804	0.0000	91.4024

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	100.28	20.3559	1.2030	0.0000	50.4310
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Health Club	35.4	7.1859	0.4247	0.0000	17.8027
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	5.47	1.1104	0.0656	0.0000	2.7509
Recreational Swimming Pool	5.7	1.1571	0.0684	0.0000	2.8665
Strip Mall	2.1	0.4263	0.0252	0.0000	1.0561
Supermarket	32.71	6.6398	0.3924	0.0000	16.4499
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		36.8936	2.1803	0.0000	91.4023

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	100.28	20.3559	1.2030	0.0000	50.4310
City Park	0.09	0.0183	1.0800e-003	0.0000	0.0453
Health Club	35.4	7.1859	0.4247	0.0000	17.8027
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	5.47	1.1104	0.0656	0.0000	2.7509
Recreational Swimming Pool	5.7	1.1571	0.0684	0.0000	2.8665
Strip Mall	2.1	0.4263	0.0252	0.0000	1.0561
Supermarket	32.71	6.6398	0.3924	0.0000	16.4499
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		36.8936	2.1803	0.0000	91.4023

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Annual

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

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

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

**Carlsbad Village Analysis for HRA Analysis Only
San Diego County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.32	Acre	0.32	13,939.20	0
Parking Lot	55.00	Space	0.49	22,000.00	0
Unenclosed Parking with Elevator	295.00	Space	0.58	118,000.00	0
City Park	1.08	Acre	1.08	46,988.17	0
Health Club	6.21	1000sqft	0.14	6,205.00	0
Quality Restaurant	6.00	1000sqft	0.14	6,000.00	0
Recreational Swimming Pool	1.00	1000sqft	0.02	1,000.00	0
Apartments Mid Rise	218.00	Dwelling Unit	1.18	258,000.00	623
Supermarket	5.80	1000sqft	0.13	5,800.00	0
Strip Mall	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project includes Tier4i equipment as project design feature.

Land Use - Per applicant information

Construction Phase - Per applicant provided construction schedule.

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information.

Trips and VMT - Default, rounded up to even values to include arrival and departure trips. Vendor tips added for demo, site prep and grading for dust suppression activities.

Demolition - Based on 58,750 sqft of existing building and 120,000 sqft of paved surfaces

Grading - Assumed that materials are balanced on site, previously developed site.

Architectural Coating - Compliance with SDAPCD Rule 67.0.1

Vehicle Trips - Based on traffic analysis.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas fireplaces or appliances.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - default values

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation - Per applicant PDFs

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,003.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,008.00	30,000.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	174,150.00	171,047.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

tblArchitecturalCoating	ConstArea_Residential_Interior	522,450.00	513,141.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaCoating	Area_Nonresidential_Exterior	10003	10000
tblAreaCoating	Area_Nonresidential_Interior	30008	30000
tblAreaCoating	Area_Residential_Exterior	174150	171047
tblAreaCoating	Area_Residential_Interior	522450	513141
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	8.00	25.00
tblConstructionPhase	NumDays	230.00	625.00
tblConstructionPhase	NumDays	18.00	103.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	119.90	0.00
tblFireplaces	NumberNoFireplace	21.80	0.00
tblFireplaces	NumberWood	76.30	0.00
tblGrading	AcresOfGrading	112.50	8.00
tblGrading	AcresOfGrading	7.00	7.50
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	47,044.80	46,988.17
tblLandUse	LandUseSquareFeet	6,210.00	6,205.00
tblLandUse	LandUseSquareFeet	218,000.00	258,000.00
tblLandUse	LotAcreage	2.65	0.58
tblLandUse	LotAcreage	5.74	1.18
tblOffRoadEquipment	HorsePower	63.00	89.00
tblOffRoadEquipment	LoadFactor	0.31	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	125.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	60.00	36.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	249.00	160.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	4.91	5.42
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	90.04	107.40
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.94
tblVehicleTrips	ST_TR	177.62	249.51
tblVehicleTrips	SU_TR	4.09	4.51
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	71.97	85.84
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	18.44
tblVehicleTrips	SU_TR	166.47	233.85
tblVehicleTrips	WD_TR	5.44	6.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	83.84	100.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	40.00
tblVehicleTrips	WD_TR	106.78	150.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

tblWoodstoves	NumberCatalytic	10.90	0.00
tblWoodstoves	NumberNoncatalytic	10.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	4.0925	44.8311	28.2840	0.0969	13.3554	1.6013	14.0660	6.7902	1.4743	7.4440	0.0000	9,600.628 7	9,600.628 7	2.6065	0.4074	9,747.376 0
2025	1.6155	14.8777	23.3729	0.0509	1.5617	0.4700	2.0317	0.4198	0.4404	0.8602	0.0000	5,038.195 9	5,038.195 9	0.8965	0.1387	5,101.938 3
2026	19.8870	25.4585	40.4436	0.0821	2.1088	0.9318	3.0405	0.5661	0.8808	1.4469	0.0000	8,003.251 7	8,003.251 7	1.4566	0.1684	8,089.839 4
Maximum	19.8870	44.8311	40.4436	0.0969	13.3554	1.6013	14.0660	6.7902	1.4743	7.4440	0.0000	9,600.628 7	9,600.628 7	2.6065	0.4074	9,747.376 0

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					
2024	1.4189	24.6783	44.1421	0.0969	6.1062	0.1614	6.1409	3.0814	0.1601	3.1161	0.0000	9,600.628 7	9,600.628 7	2.6065	0.4074	9,747.376 0
2025	1.0956	14.1052	26.1373	0.0509	1.5617	0.0845	1.6462	0.4198	0.0816	0.5014	0.0000	5,038.195 9	5,038.195 9	0.8965	0.1387	5,101.938 3
2026	18.7097	25.8252	45.0963	0.0821	2.1088	0.2245	2.3332	0.5661	0.2214	0.7875	0.0000	8,003.251 7	8,003.251 7	1.4566	0.1684	8,089.839 4
Maximum	18.7097	25.8252	45.0963	0.0969	6.1062	0.2245	6.1409	3.0814	0.2214	3.1161	0.0000	9,600.628 7	9,600.628 7	2.6065	0.4074	9,747.376 0

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Energy	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
Mobile	7.5736	6.3952	57.5987	0.1191	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		12,141.2868	12,141.2868	0.9132	0.5644	12,332.3201
Total	14.6787	7.3428	76.0607	0.1247	13.1948	0.2493	13.4441	3.5147	0.2431	3.7578	0.0000	13,092.7975	13,092.7975	0.9620	0.5813	13,290.0728

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	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Energy	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
Mobile	7.5736	6.3952	57.5987	0.1191	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		12,141.2868	12,141.2868	0.9132	0.5644	12,332.3201
Total	14.6787	7.3428	76.0607	0.1247	13.1948	0.2493	13.4441	3.5147	0.2431	3.7578	0.0000	13,092.7975	13,092.7975	0.9620	0.5813	13,290.0728

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7/1/2024	7/29/2024	6	25	
2	Site Preparation	Site Preparation	7/30/2024	8/6/2024	6	7	
3	Grading	Grading	8/7/2024	9/4/2024	6	25	
4	Building Construction	Building Construction	9/5/2024	9/3/2026	6	625	
5	Architectural Coating	Architectural Coating	4/1/2026	7/29/2026	6	103	
6	Paving	Paving	7/1/2026	7/15/2026	6	13	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.39

Residential Indoor: 513,141; Residential Outdoor: 171,047; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 9,236 (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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Aerial Lifts	3	8.00	89	0.20
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	4	8.00	6	0.82
Paving	Skid Steer Loaders	1	8.00	65	0.37

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	5	16.00	4.00	948.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	160.00	36.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	40.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	20.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

Water Exposed Area

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3071	0.0000	8.3071	1.2580	0.0000	1.2580			0.0000			0.0000
Off-Road	2.0635	19.4753	16.4423	0.0337		0.8911	0.8911		0.8286	0.8286		3,247.157 4	3,247.157 4	0.8867		3,269.324 2
Total	2.0635	19.4753	16.4423	0.0337	8.3071	0.8911	9.1982	1.2580	0.8286	2.0866		3,247.157 4	3,247.157 4	0.8867		3,269.324 2

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0849	4.9173	1.3815	0.0222	0.6633	0.0424	0.7056	0.1818	0.0405	0.2223		2,463.4206	2,463.4206	0.1302	0.3920	2,583.5043
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167
Total	0.1305	5.1120	1.8001	0.0242	0.8218	0.0441	0.8658	0.2245	0.0421	0.2666		2,663.8272	2,663.8272	0.1359	0.4074	2,788.6152

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					3.7382	0.0000	3.7382	0.5661	0.0000	0.5661			0.0000			0.0000
Off-Road	0.5206	11.2809	20.7559	0.0337		0.0532	0.0532		0.0532	0.0532	0.0000	3,247.1574	3,247.1574	0.8867		3,269.3242
Total	0.5206	11.2809	20.7559	0.0337	3.7382	0.0532	3.7914	0.5661	0.0532	0.6193	0.0000	3,247.1574	3,247.1574	0.8867		3,269.3242

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0849	4.9173	1.3815	0.0222	0.6633	0.0424	0.7056	0.1818	0.0405	0.2223		2,463.4206	2,463.4206	0.1302	0.3920	2,583.5043
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167
Total	0.1305	5.1120	1.8001	0.0242	0.8218	0.0441	0.8658	0.2245	0.0421	0.2666		2,663.8272	2,663.8272	0.1359	0.4074	2,788.6152

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1804	0.0000	13.1804	6.7431	0.0000	6.7431			0.0000			0.0000
Off-Road	1.5341	15.7036	8.4978	0.0202		0.7088	0.7088		0.6521	0.6521		1,955.7287	1,955.7287	0.6325		1,971.5418
Total	1.5341	15.7036	8.4978	0.0202	13.1804	0.7088	13.8892	6.7431	0.6521	7.3952		1,955.7287	1,955.7287	0.6325		1,971.5418

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188
Total	0.0508	0.1978	0.4634	2.0600e-003	0.1750	1.8000e-003	0.1768	0.0470	1.6900e-003	0.0487		214.5978	214.5978	6.0000e-003	0.0157	219.4129

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					5.9312	0.0000	5.9312	3.0344	0.0000	3.0344			0.0000			0.0000
Off-Road	0.3484	5.8503	11.4032	0.0202		0.0329	0.0329		0.0329	0.0329	0.0000	1,955.7287	1,955.7287	0.6325		1,971.5418
Total	0.3484	5.8503	11.4032	0.0202	5.9312	0.0329	5.9641	3.0344	0.0329	3.0674	0.0000	1,955.7287	1,955.7287	0.6325		1,971.5418

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188
Total	0.0508	0.1978	0.4634	2.0600e-003	0.1750	1.8000e-003	0.1768	0.0470	1.6900e-003	0.0487		214.5978	214.5978	6.0000e-003	0.0157	219.4129

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3675	0.0000	0.3675	0.0409	0.0000	0.0409			0.0000			0.0000
Off-Road	3.9909	41.3945	26.9546	0.0803		1.5717	1.5717		1.4459	1.4459		7,776.1315	7,776.1315	2.5150		7,839.0055
Total	3.9909	41.3945	26.9546	0.0803	0.3675	1.5717	1.9391	0.0409	1.4459	1.4868		7,776.1315	7,776.1315	2.5150		7,839.0055

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0560	3.2419	0.9108	0.0147	0.4373	0.0279	0.4652	0.1199	0.0267	0.1466		1,624.0906	1,624.0906	0.0859	0.2585	1,703.2597
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167
Total	0.1016	3.4366	1.3294	0.0166	0.5958	0.0296	0.6254	0.1625	0.0283	0.1909		1,824.4972	1,824.4972	0.0915	0.2738	1,908.3705

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1654	0.0000	0.1654	0.0184	0.0000	0.0184			0.0000			0.0000
Off-Road	1.3173	21.2417	42.8127	0.0803		0.1317	0.1317		0.1317	0.1317	0.0000	7,776.1315	7,776.1315	2.5150		7,839.0054
Total	1.3173	21.2417	42.8127	0.0803	0.1654	0.1317	0.2971	0.0184	0.1317	0.1501	0.0000	7,776.1315	7,776.1315	2.5150		7,839.0054

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0560	3.2419	0.9108	0.0147	0.4373	0.0279	0.4652	0.1199	0.0267	0.1466		1,624.0906	1,624.0906	0.0859	0.2585	1,703.2597
Vendor	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0411	0.0244	0.3582	1.1200e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		113.5294	113.5294	2.9000e-003	2.7300e-003	114.4167
Total	0.1016	3.4366	1.3294	0.0166	0.5958	0.0296	0.6254	0.1625	0.0283	0.1909		1,824.4972	1,824.4972	0.0915	0.2738	1,908.3705

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2650	13.9970	19.5431	0.0328		0.5196	0.5196		0.4869	0.4869		3,161.3772	3,161.3772	0.8462		3,182.5314
Total	1.2650	13.9970	19.5431	0.0328		0.5196	0.5196		0.4869	0.4869		3,161.3772	3,161.3772	0.8462		3,182.5314

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0259	7.2900e-003	1.2000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.9927	12.9927	6.9000e-004	2.0700e-003	13.6261
Vendor	0.0414	1.5327	0.5431	7.2300e-003	0.2438	9.4500e-003	0.2533	0.0702	9.0400e-003	0.0792		781.8950	781.8950	0.0247	0.1132	816.2471
Worker	0.4106	0.2441	3.5822	0.0112	1.3144	6.7100e-003	1.3211	0.3486	6.1700e-003	0.3548		1,135.2939	1,135.2939	0.0290	0.0274	1,144.1671
Total	0.4524	1.8028	4.1327	0.0186	1.5617	0.0164	1.5781	0.4198	0.0154	0.4352		1,930.1817	1,930.1817	0.0543	0.1426	1,974.0402

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	0.6700	12.3571	22.2472	0.0328		0.0691	0.0691		0.0671	0.0671	0.0000	3,161.3772	3,161.3772	0.8462		3,182.5314
Total	0.6700	12.3571	22.2472	0.0328		0.0691	0.0691		0.0671	0.0671	0.0000	3,161.3772	3,161.3772	0.8462		3,182.5314

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 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	lb/day										lb/day					
Hauling	4.5000e-004	0.0259	7.2900e-003	1.2000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.9927	12.9927	6.9000e-004	2.0700e-003	13.6261
Vendor	0.0414	1.5327	0.5431	7.2300e-003	0.2438	9.4500e-003	0.2533	0.0702	9.0400e-003	0.0792		781.8950	781.8950	0.0247	0.1132	816.2471
Worker	0.4106	0.2441	3.5822	0.0112	1.3144	6.7100e-003	1.3211	0.3486	6.1700e-003	0.3548		1,135.2939	1,135.2939	0.0290	0.0274	1,144.1671
Total	0.4524	1.8028	4.1327	0.0186	1.5617	0.0164	1.5781	0.4198	0.0154	0.4352		1,930.1817	1,930.1817	0.0543	0.1426	1,974.0402

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196
Total	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	0.0256	7.3900e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.7292	12.7292	7.1000e-004	2.0300e-003	13.3511
Vendor	0.0401	1.5176	0.5340	7.0800e-003	0.2438	9.4200e-003	0.2532	0.0702	9.0100e-003	0.0792		766.9794	766.9794	0.0253	0.1110	800.6868
Worker	0.3866	0.2210	3.3535	0.0109	1.3144	6.4100e-003	1.3208	0.3486	5.9000e-003	0.3545		1,096.5714	1,096.5714	0.0264	0.0257	1,104.8808
Total	0.4272	1.7642	3.8949	0.0180	1.5617	0.0161	1.5777	0.4198	0.0151	0.4349		1,876.2800	1,876.2800	0.0524	0.1387	1,918.9187

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	lb/day										lb/day					
Off-Road	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196
Total	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	0.0256	7.3900e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.7292	12.7292	7.1000e-004	2.0300e-003	13.3511
Vendor	0.0401	1.5176	0.5340	7.0800e-003	0.2438	9.4200e-003	0.2532	0.0702	9.0100e-003	0.0792		766.9794	766.9794	0.0253	0.1110	800.6868
Worker	0.3866	0.2210	3.3535	0.0109	1.3144	6.4100e-003	1.3208	0.3486	5.9000e-003	0.3545		1,096.5714	1,096.5714	0.0264	0.0257	1,104.8808
Total	0.4272	1.7642	3.8949	0.0180	1.5617	0.0161	1.5777	0.4198	0.0151	0.4349		1,876.2800	1,876.2800	0.0524	0.1387	1,918.9187

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196
Total	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	0.0252	7.4900e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.4635	12.4635	7.3000e-004	1.9900e-003	13.0737
Vendor	0.0391	1.5013	0.5275	6.9400e-003	0.2438	9.3400e-003	0.2532	0.0702	8.9400e-003	0.0791		752.3269	752.3269	0.0259	0.1088	785.4045
Worker	0.3652	0.2017	3.1589	0.0105	1.3144	6.0900e-003	1.3205	0.3486	5.6100e-003	0.3542		1,062.2350	1,062.2350	0.0241	0.0243	1,070.0704
Total	0.4047	1.7282	3.6939	0.0176	1.5617	0.0157	1.5773	0.4198	0.0148	0.4345		1,827.0254	1,827.0254	0.0508	0.1351	1,868.5486

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	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196
Total	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.4000e-004	0.0252	7.4900e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.4635	12.4635	7.3000e-004	1.9900e-003	13.0737
Vendor	0.0391	1.5013	0.5275	6.9400e-003	0.2438	9.3400e-003	0.2532	0.0702	8.9400e-003	0.0791		752.3269	752.3269	0.0259	0.1088	785.4045
Worker	0.3652	0.2017	3.1589	0.0105	1.3144	6.0900e-003	1.3205	0.3486	5.6100e-003	0.3542		1,062.2350	1,062.2350	0.0241	0.0243	1,070.0704
Total	0.4047	1.7282	3.6939	0.0176	1.5617	0.0157	1.5773	0.4198	0.0148	0.4345		1,827.0254	1,827.0254	0.0508	0.1351	1,868.5486

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.7099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	17.1655	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1700e-003	0.0834	0.0293	3.9000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		41.7959	41.7959	1.4400e-003	6.0500e-003	43.6336
Worker	0.0913	0.0504	0.7897	2.6300e-003	0.3286	1.5200e-003	0.3301	0.0872	1.4000e-003	0.0886		265.5588	265.5588	6.0300e-003	6.0700e-003	267.5176
Total	0.0935	0.1338	0.8190	3.0200e-003	0.3421	2.0400e-003	0.3442	0.0911	1.9000e-003	0.0930		307.3547	307.3547	7.4700e-003	0.0121	311.1512

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	16.7099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1453	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0409		751.5516
Total	16.8551	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0409		751.5516

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1700e-003	0.0834	0.0293	3.9000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		41.7959	41.7959	1.4400e-003	6.0500e-003	43.6336
Worker	0.0913	0.0504	0.7897	2.6300e-003	0.3286	1.5200e-003	0.3301	0.0872	1.4000e-003	0.0886		265.5588	265.5588	6.0300e-003	6.0700e-003	267.5176
Total	0.0935	0.1338	0.8190	3.0200e-003	0.3421	2.0400e-003	0.3442	0.0911	1.9000e-003	0.0930		307.3547	307.3547	7.4700e-003	0.0121	311.1512

3.7 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.1529	11.1455	0.0183		0.3205	0.3205		0.2993	0.2993		1,698.2604	1,698.2604	0.5059		1,710.9088
Paving	0.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9830	7.1529	11.1455	0.0183		0.3205	0.3205		0.2993	0.2993		1,698.2604	1,698.2604	0.5059		1,710.9088

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.7 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5100e-003	0.2502	0.0879	1.1600e-003	0.0406	1.5600e-003	0.0422	0.0117	1.4900e-003	0.0132		125.3878	125.3878	4.3200e-003	0.0181	130.9008
Worker	0.0457	0.0252	0.3949	1.3100e-003	0.1643	7.6000e-004	0.1651	0.0436	7.0000e-004	0.0443		132.7794	132.7794	3.0200e-003	3.0300e-003	133.7588
Total	0.0522	0.2754	0.4828	2.4700e-003	0.2049	2.3200e-003	0.2073	0.0553	2.1900e-003	0.0575		258.1672	258.1672	7.3400e-003	0.0212	264.6596

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	0.4725	8.5206	12.9718	0.0183		0.1254	0.1254		0.1254	0.1254	0.0000	1,698.2604	1,698.2604	0.5059		1,710.9088
Paving	0.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6358	8.5206	12.9718	0.0183		0.1254	0.1254		0.1254	0.1254	0.0000	1,698.2604	1,698.2604	0.5059		1,710.9088

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

3.7 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.5100e-003	0.2502	0.0879	1.1600e-003	0.0406	1.5600e-003	0.0422	0.0117	1.4900e-003	0.0132		125.3878	125.3878	4.3200e-003	0.0181	130.9008
Worker	0.0457	0.0252	0.3949	1.3100e-003	0.1643	7.6000e-004	0.1651	0.0436	7.0000e-004	0.0443		132.7794	132.7794	3.0200e-003	3.0300e-003	133.7588
Total	0.0522	0.2754	0.4828	2.4700e-003	0.2049	2.3200e-003	0.2073	0.0553	2.1900e-003	0.0575		258.1672	258.1672	7.3400e-003	0.0212	264.6596

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7.5736	6.3952	57.5987	0.1191	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		12,141.2868	12,141.2868	0.9132	0.5644	12,332.3201
Unmitigated	7.5736	6.3952	57.5987	0.1191	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		12,141.2868	12,141.2868	0.9132	0.5644	12,332.3201

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,308.00	1,181.56	983.18	3,550,668	3,550,668
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	600.00	644.40	515.04	704,827	704,827
Recreational Swimming Pool	0.00	0.00	0.00		
Supermarket	870.00	1,447.16	1356.33	1,162,384	1,162,384
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	80.00	75.88	36.88	112,810	112,810
Total	2,858.00	3,349.00	2,891.43	5,530,688	5,530,688

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	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
City Park	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Health Club	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Parking Lot	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Quality Restaurant	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Recreational Swimming Pool	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Supermarket	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Unenclosed Parking with Elevator	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Strip Mall	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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					
NaturalGas Mitigated	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
NaturalGas Unmitigated	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4345.7	0.0469	0.4005	0.1704	2.5600e-003		0.0324	0.0324		0.0324	0.0324		511.2583	511.2583	9.8000e-003	9.3700e-003	514.2965
City Park	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
Health Club	195.84	2.1100e-003	0.0192	0.0161	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003		23.0400	23.0400	4.4000e-004	4.2000e-004	23.1769
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2860.6	0.0309	0.2805	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5415	336.5415	6.4500e-003	6.1700e-003	338.5414
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	12.1644	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.4311	1.4311	3.0000e-005	3.0000e-005	1.4396
Supermarket	397.578	4.2900e-003	0.0390	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7739	46.7739	9.0000e-004	8.6000e-004	47.0519
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	4.3457	0.0469	0.4005	0.1704	2.5600e-003		0.0324	0.0324		0.0324	0.0324		511.2583	511.2583	9.8000e-003	9.3700e-003	514.2965
City Park	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
Health Club	0.19584	2.1100e-003	0.0192	0.0161	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003		23.0400	23.0400	4.4000e-004	4.2000e-004	23.1769
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2.8606	0.0309	0.2805	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5415	336.5415	6.4500e-003	6.1700e-003	338.5414
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0121644	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.4311	1.4311	3.0000e-005	3.0000e-005	1.4396
Supermarket	0.397578	4.2900e-003	0.0390	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7739	46.7739	9.0000e-004	8.6000e-004	47.0519
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

6.0 Area Detail

6.1 Mitigation Measures Area

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Unmitigated	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

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	0.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0063					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	0.5430	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998		32.4659	32.4659	0.0312		33.2465
Total	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	0.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0063					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	0.5430	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998		32.4659	32.4659	0.0312		33.2465
Total	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

7.0 Water Detail

7.1 Mitigation Measures Water

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

**Carlsbad Village Analysis for HRA Analysis Only
San Diego County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.32	Acre	0.32	13,939.20	0
Parking Lot	55.00	Space	0.49	22,000.00	0
Unenclosed Parking with Elevator	295.00	Space	0.58	118,000.00	0
City Park	1.08	Acre	1.08	46,988.17	0
Health Club	6.21	1000sqft	0.14	6,205.00	0
Quality Restaurant	6.00	1000sqft	0.14	6,000.00	0
Recreational Swimming Pool	1.00	1000sqft	0.02	1,000.00	0
Apartments Mid Rise	218.00	Dwelling Unit	1.18	258,000.00	623
Supermarket	5.80	1000sqft	0.13	5,800.00	0
Strip Mall	2.00	1000sqft	0.05	2,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2026
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project includes Tier4i equipment as project design feature.

Land Use - Per applicant information

Construction Phase - Per applicant provided construction schedule.

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information.

Off-road Equipment - Per applicant provided information

Off-road Equipment - Per applicant provided information.

Trips and VMT - Default, rounded up to even values to include arrival and departure trips. Vendor tips added for demo, site prep and grading for dust suppression activities.

Demolition - Based on 58,750 sqft of existing building and 120,000 sqft of paved surfaces

Grading - Assumed that materials are balanced on site, previously developed site.

Architectural Coating - Compliance with SDAPCD Rule 67.0.1

Vehicle Trips - Based on traffic analysis.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas fireplaces or appliances.

Area Coating - SDAPCD Rule 67.0.1

Energy Use - default values

Water And Wastewater - default values

Solid Waste - default values

Construction Off-road Equipment Mitigation - Per applicant PDFs

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,003.00	10,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,008.00	30,000.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	174,150.00	171,047.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

tblArchitecturalCoating	ConstArea_Residential_Interior	522,450.00	513,141.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Parking	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaCoating	Area_Nonresidential_Exterior	10003	10000
tblAreaCoating	Area_Nonresidential_Interior	30008	30000
tblAreaCoating	Area_Residential_Exterior	174150	171047
tblAreaCoating	Area_Residential_Interior	522450	513141
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	NumDays	5.00	7.00
tblConstructionPhase	NumDays	8.00	25.00
tblConstructionPhase	NumDays	230.00	625.00
tblConstructionPhase	NumDays	18.00	103.00
tblConstructionPhase	NumDays	18.00	13.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceDayYear	82.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	119.90	0.00
tblFireplaces	NumberNoFireplace	21.80	0.00
tblFireplaces	NumberWood	76.30	0.00
tblGrading	AcresOfGrading	112.50	8.00
tblGrading	AcresOfGrading	7.00	7.50
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialImported	0.00	1,000.00
tblLandUse	LandUseSquareFeet	47,044.80	46,988.17
tblLandUse	LandUseSquareFeet	6,210.00	6,205.00
tblLandUse	LandUseSquareFeet	218,000.00	258,000.00
tblLandUse	LotAcreage	2.65	0.58
tblLandUse	LotAcreage	5.74	1.18
tblOffRoadEquipment	HorsePower	63.00	89.00
tblOffRoadEquipment	LoadFactor	0.31	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	125.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	60.00	36.00

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	13.00	16.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblTripsAndVMT	WorkerTripNumber	20.00	16.00
tblTripsAndVMT	WorkerTripNumber	249.00	160.00
tblTripsAndVMT	WorkerTripNumber	50.00	40.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblVehicleTrips	ST_TR	4.91	5.42
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	90.04	107.40
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	37.94
tblVehicleTrips	ST_TR	177.62	249.51
tblVehicleTrips	SU_TR	4.09	4.51
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	71.97	85.84
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	18.44
tblVehicleTrips	SU_TR	166.47	233.85
tblVehicleTrips	WD_TR	5.44	6.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	83.84	100.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	40.00
tblVehicleTrips	WD_TR	106.78	150.00

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

tblWoodstoves	NumberCatalytic	10.90	0.00
tblWoodstoves	NumberNoncatalytic	10.90	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	4.0926	44.9723	28.2799	0.0969	13.3554	1.6014	14.0660	6.7902	1.4743	7.4440	0.0000	9,596.1365	9,596.1365	2.6064	0.4080	9,743.0374
2025	1.6487	14.9704	23.2339	0.0503	1.5617	0.4701	2.0317	0.4198	0.4404	0.8602	0.0000	4,979.3409	4,979.3409	0.8983	0.1410	5,043.8234
2026	19.9316	25.5719	40.2669	0.0813	2.1088	0.9318	3.0406	0.5661	0.8808	1.4469	0.0000	7,924.8447	7,924.8447	1.4588	0.1714	8,012.3841
Maximum	19.9316	44.9723	40.2669	0.0969	13.3554	1.6014	14.0660	6.7902	1.4743	7.4440	0.0000	9,596.1365	9,596.1365	2.6064	0.4080	9,743.0374

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					
2024	1.4190	24.8195	44.1380	0.0969	6.1062	0.1614	6.1409	3.0814	0.1601	3.1161	0.0000	9,596.1365	9,596.1365	2.6064	0.4080	9,743.0374
2025	1.1289	14.1979	25.9982	0.0503	1.5617	0.0845	1.6462	0.4198	0.0817	0.5014	0.0000	4,979.3409	4,979.3409	0.8983	0.1410	5,043.8234
2026	18.7542	25.9386	44.9197	0.0813	2.1088	0.2245	2.3333	0.5661	0.2214	0.7875	0.0000	7,924.8447	7,924.8447	1.4588	0.1714	8,012.3841
Maximum	18.7542	25.9386	44.9197	0.0969	6.1062	0.2245	6.1409	3.0814	0.2214	3.1161	0.0000	9,596.1365	9,596.1365	2.6064	0.4080	9,743.0374

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Energy	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
Mobile	7.2914	6.9412	60.4738	0.1140	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		11,628.6545	11,628.6545	0.9789	0.5962	11,830.7941
Total	14.3964	7.8888	78.9358	0.1196	13.1948	0.2494	13.4442	3.5147	0.2432	3.7579	0.0000	12,580.1652	12,580.1652	1.0277	0.6131	12,788.5468

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	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Energy	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
Mobile	7.2914	6.9412	60.4738	0.1140	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		11,628.6545	11,628.6545	0.9789	0.5962	11,830.7941
Total	14.3964	7.8888	78.9358	0.1196	13.1948	0.2494	13.4442	3.5147	0.2432	3.7579	0.0000	12,580.1652	12,580.1652	1.0277	0.6131	12,788.5468

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7/1/2024	7/29/2024	6	25	
2	Site Preparation	Site Preparation	7/30/2024	8/6/2024	6	7	
3	Grading	Grading	8/7/2024	9/4/2024	6	25	
4	Building Construction	Building Construction	9/5/2024	9/3/2026	6	625	
5	Architectural Coating	Architectural Coating	4/1/2026	7/29/2026	6	103	
6	Paving	Paving	7/1/2026	7/15/2026	6	13	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 8

Acres of Paving: 1.39

Residential Indoor: 513,141; Residential Outdoor: 171,047; Non-Residential Indoor: 30,000; Non-Residential Outdoor: 10,000; Striped Parking Area: 9,236 (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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

Grading	Crawler Tractors	2	8.00	212	0.43
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Loaders	2	8.00	203	0.36
Grading	Scrapers	3	8.00	367	0.48
Building Construction	Aerial Lifts	3	8.00	89	0.20
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	3	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	2	8.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Signal Boards	4	8.00	6	0.82
Paving	Skid Steer Loaders	1	8.00	65	0.37

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	5	16.00	4.00	948.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	16.00	4.00	625.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	160.00	36.00	125.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	40.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	9	20.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

Water Exposed Area

3.2 Demolition - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.3071	0.0000	8.3071	1.2580	0.0000	1.2580			0.0000			0.0000
Off-Road	2.0635	19.4753	16.4423	0.0337		0.8911	0.8911		0.8286	0.8286		3,247.157 4	3,247.157 4	0.8867		3,269.324 2
Total	2.0635	19.4753	16.4423	0.0337	8.3071	0.8911	9.1982	1.2580	0.8286	2.0866		3,247.157 4	3,247.157 4	0.8867		3,269.324 2

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0797	5.1160	1.3986	0.0223	0.6633	0.0424	0.7057	0.1818	0.0406	0.2224		2,465.8575	2,465.8575	0.1299	0.3924	2,586.0537
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620
Total	0.1288	5.3210	1.8018	0.0241	0.8218	0.0441	0.8659	0.2245	0.0422	0.2667		2,660.1653	2,660.1653	0.1357	0.4080	2,785.1452

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					3.7382	0.0000	3.7382	0.5661	0.0000	0.5661			0.0000			0.0000
Off-Road	0.5206	11.2809	20.7559	0.0337		0.0532	0.0532		0.0532	0.0532	0.0000	3,247.1574	3,247.1574	0.8867		3,269.3242
Total	0.5206	11.2809	20.7559	0.0337	3.7382	0.0532	3.7914	0.5661	0.0532	0.6193	0.0000	3,247.1574	3,247.1574	0.8867		3,269.3242

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0797	5.1160	1.3986	0.0223	0.6633	0.0424	0.7057	0.1818	0.0406	0.2224		2,465.8575	2,465.8575	0.1299	0.3924	2,586.0537
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620
Total	0.1288	5.3210	1.8018	0.0241	0.8218	0.0441	0.8659	0.2245	0.0422	0.2667		2,660.1653	2,660.1653	0.1357	0.4080	2,785.1452

3.3 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.1804	0.0000	13.1804	6.7431	0.0000	6.7431			0.0000			0.0000
Off-Road	1.5341	15.7036	8.4978	0.0202		0.7088	0.7088		0.6521	0.6521		1,955.7287	1,955.7287	0.6325		1,971.5418
Total	1.5341	15.7036	8.4978	0.0202	13.1804	0.7088	13.8892	6.7431	0.6521	7.3952		1,955.7287	1,955.7287	0.6325		1,971.5418

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0502	0.0309	0.3837	1.1900e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		120.7165	120.7165	3.4800e-003	3.3300e-003	121.7947
Total	0.0547	0.2084	0.4459	1.9900e-003	0.1750	1.8000e-003	0.1768	0.0470	1.7000e-003	0.0487		207.7208	207.7208	6.2100e-003	0.0159	212.6243

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					5.9312	0.0000	5.9312	3.0344	0.0000	3.0344			0.0000			0.0000
Off-Road	0.3484	5.8503	11.4032	0.0202		0.0329	0.0329		0.0329	0.0329	0.0000	1,955.7287	1,955.7287	0.6325		1,971.5418
Total	0.3484	5.8503	11.4032	0.0202	5.9312	0.0329	5.9641	3.0344	0.0329	3.0674	0.0000	1,955.7287	1,955.7287	0.6325		1,971.5418

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0502	0.0309	0.3837	1.1900e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		120.7165	120.7165	3.4800e-003	3.3300e-003	121.7947
Total	0.0547	0.2084	0.4459	1.9900e-003	0.1750	1.8000e-003	0.1768	0.0470	1.7000e-003	0.0487		207.7208	207.7208	6.2100e-003	0.0159	212.6243

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3675	0.0000	0.3675	0.0409	0.0000	0.0409			0.0000			0.0000
Off-Road	3.9909	41.3945	26.9546	0.0803		1.5717	1.5717		1.4459	1.4459		7,776.1315	7,776.1315	2.5150		7,839.0055
Total	3.9909	41.3945	26.9546	0.0803	0.3675	1.5717	1.9391	0.0409	1.4459	1.4868		7,776.1315	7,776.1315	2.5150		7,839.0055

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0526	3.3729	0.9220	0.0147	0.4373	0.0280	0.4652	0.1199	0.0268	0.1466		1,625.697 2	1,625.697 2	0.0857	0.2587	1,704.940 4
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620
Total	0.1017	3.5778	1.3253	0.0165	0.5958	0.0297	0.6255	0.1625	0.0284	0.1909		1,820.005 0	1,820.005 0	0.0915	0.2743	1,904.032 0

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1654	0.0000	0.1654	0.0184	0.0000	0.0184			0.0000			0.0000
Off-Road	1.3173	21.2417	42.8127	0.0803		0.1317	0.1317		0.1317	0.1317	0.0000	7,776.131 5	7,776.131 5	2.5150		7,839.005 4
Total	1.3173	21.2417	42.8127	0.0803	0.1654	0.1317	0.2971	0.0184	0.1317	0.1501	0.0000	7,776.131 5	7,776.131 5	2.5150		7,839.005 4

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0526	3.3729	0.9220	0.0147	0.4373	0.0280	0.4652	0.1199	0.0268	0.1466		1,625.697 2	1,625.697 2	0.0857	0.2587	1,704.940 4
Vendor	4.4600e-003	0.1775	0.0622	8.0000e-004	0.0271	1.0500e-003	0.0282	7.8000e-003	1.0100e-003	8.8100e-003		87.0043	87.0043	2.7300e-003	0.0126	90.8295
Worker	0.0446	0.0275	0.3411	1.0600e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		107.3036	107.3036	3.0900e-003	2.9600e-003	108.2620
Total	0.1017	3.5778	1.3253	0.0165	0.5958	0.0297	0.6255	0.1625	0.0284	0.1909		1,820.005 0	1,820.005 0	0.0915	0.2743	1,904.032 0

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2650	13.9970	19.5431	0.0328		0.5196	0.5196		0.4869	0.4869		3,161.377 2	3,161.377 2	0.8462		3,182.531 4
Total	1.2650	13.9970	19.5431	0.0328		0.5196	0.5196		0.4869	0.4869		3,161.377 2	3,161.377 2	0.8462		3,182.531 4

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 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	lb/day										lb/day					
Hauling	4.2000e-004	0.0270	7.3800e-003	1.2000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		13.0056	13.0056	6.9000e-004	2.0700e-003	13.6395
Vendor	0.0401	1.5974	0.5599	7.2400e-003	0.2438	9.4900e-003	0.2533	0.0702	9.0800e-003	0.0793		783.0385	783.0385	0.0246	0.1135	817.4658
Worker	0.4463	0.2745	3.4107	0.0106	1.3144	6.7100e-003	1.3211	0.3486	6.1700e-003	0.3548		1,073.0355	1,073.0355	0.0309	0.0296	1,082.6199
Total	0.4869	1.8989	3.9779	0.0180	1.5617	0.0164	1.5781	0.4198	0.0155	0.4352		1,869.0795	1,869.0795	0.0562	0.1451	1,913.7252

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	0.6700	12.3571	22.2472	0.0328		0.0691	0.0691		0.0671	0.0671	0.0000	3,161.3772	3,161.3772	0.8462		3,182.5314
Total	0.6700	12.3571	22.2472	0.0328		0.0691	0.0691		0.0671	0.0671	0.0000	3,161.3772	3,161.3772	0.8462		3,182.5314

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 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	lb/day										lb/day					
Hauling	4.2000e-004	0.0270	7.3800e-003	1.2000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		13.0056	13.0056	6.9000e-004	2.0700e-003	13.6395
Vendor	0.0401	1.5974	0.5599	7.2400e-003	0.2438	9.4900e-003	0.2533	0.0702	9.0800e-003	0.0793		783.0385	783.0385	0.0246	0.1135	817.4658
Worker	0.4463	0.2745	3.4107	0.0106	1.3144	6.7100e-003	1.3211	0.3486	6.1700e-003	0.3548		1,073.0355	1,073.0355	0.0309	0.0296	1,082.6199
Total	0.4869	1.8989	3.9779	0.0180	1.5617	0.0164	1.5781	0.4198	0.0155	0.4352		1,869.0795	1,869.0795	0.0562	0.1451	1,913.7252

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196
Total	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0266	7.4800e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.7420	12.7420	7.1000e-004	2.0300e-003	13.3645
Vendor	0.0388	1.5818	0.5506	7.0900e-003	0.2438	9.4600e-003	0.2533	0.0702	9.0500e-003	0.0792		768.1277	768.1277	0.0252	0.1113	801.9086
Worker	0.4212	0.2485	3.1978	0.0103	1.3144	6.4100e-003	1.3208	0.3486	5.9000e-003	0.3545		1,036.5553	1,036.5553	0.0282	0.0278	1,045.5306
Total	0.4605	1.8569	3.7559	0.0175	1.5617	0.0161	1.5778	0.4198	0.0152	0.4349		1,817.4250	1,817.4250	0.0541	0.1410	1,860.8037

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	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196
Total	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-004	0.0266	7.4800e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.7420	12.7420	7.1000e-004	2.0300e-003	13.3645
Vendor	0.0388	1.5818	0.5506	7.0900e-003	0.2438	9.4600e-003	0.2533	0.0702	9.0500e-003	0.0792		768.1277	768.1277	0.0252	0.1113	801.9086
Worker	0.4212	0.2485	3.1978	0.0103	1.3144	6.4100e-003	1.3208	0.3486	5.9000e-003	0.3545		1,036.5553	1,036.5553	0.0282	0.0278	1,045.5306
Total	0.4605	1.8569	3.7559	0.0175	1.5617	0.0161	1.5778	0.4198	0.0152	0.4349		1,817.4250	1,817.4250	0.0541	0.1410	1,860.8037

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196
Total	1.1883	13.1135	19.4780	0.0328		0.4540	0.4540		0.4253	0.4253		3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1000e-004	0.0262	7.5800e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.4762	12.4762	7.3000e-004	1.9900e-003	13.0870
Vendor	0.0377	1.5651	0.5439	6.9500e-003	0.2438	9.3800e-003	0.2532	0.0702	8.9700e-003	0.0792		753.4772	753.4772	0.0258	0.1091	786.6268
Worker	0.3989	0.2268	3.0158	9.9300e-003	1.3144	6.0900e-003	1.3205	0.3486	5.6100e-003	0.3542		1,004.1800	1,004.1800	0.0258	0.0262	1,012.6431
Total	0.4370	1.8180	3.5673	0.0170	1.5617	0.0157	1.5774	0.4198	0.0148	0.4346		1,770.1334	1,770.1334	0.0524	0.1373	1,812.3569

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	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196
Total	0.6684	12.3410	22.2424	0.0328		0.0685	0.0685		0.0665	0.0665	0.0000	3,161.9159	3,161.9159	0.8442		3,183.0196

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.5 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1000e-004	0.0262	7.5800e-003	1.1000e-004	3.5000e-003	2.2000e-004	3.7200e-003	9.6000e-004	2.1000e-004	1.1700e-003		12.4762	12.4762	7.3000e-004	1.9900e-003	13.0870
Vendor	0.0377	1.5651	0.5439	6.9500e-003	0.2438	9.3800e-003	0.2532	0.0702	8.9700e-003	0.0792		753.4772	753.4772	0.0258	0.1091	786.6268
Worker	0.3989	0.2268	3.0158	9.9300e-003	1.3144	6.0900e-003	1.3205	0.3486	5.6100e-003	0.3542		1,004.1800	1,004.1800	0.0258	0.0262	1,012.6431
Total	0.4370	1.8180	3.5673	0.0170	1.5617	0.0157	1.5774	0.4198	0.0148	0.4346		1,770.1334	1,770.1334	0.0524	0.1373	1,812.3569

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.7099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4556	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516
Total	17.1655	3.0547	4.8244	7.9200e-003		0.1374	0.1374		0.1374	0.1374		750.5281	750.5281	0.0409		751.5516

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0870	0.0302	3.9000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		41.8598	41.8598	1.4300e-003	6.0600e-003	43.7015
Worker	0.0997	0.0567	0.7539	2.4800e-003	0.3286	1.5200e-003	0.3301	0.0872	1.4000e-003	0.0886		251.0450	251.0450	6.4600e-003	6.5600e-003	253.1608
Total	0.1018	0.1436	0.7842	2.8700e-003	0.3421	2.0400e-003	0.3442	0.0911	1.9000e-003	0.0930		292.9048	292.9048	7.8900e-003	0.0126	296.8623

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	16.7099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1453	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0409		751.5516
Total	16.8551	2.8262	4.8864	7.9200e-003		0.0106	0.0106		0.0106	0.0106	0.0000	750.5281	750.5281	0.0409		751.5516

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0900e-003	0.0870	0.0302	3.9000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		41.8598	41.8598	1.4300e-003	6.0600e-003	43.7015
Worker	0.0997	0.0567	0.7539	2.4800e-003	0.3286	1.5200e-003	0.3301	0.0872	1.4000e-003	0.0886		251.0450	251.0450	6.4600e-003	6.5600e-003	253.1608
Total	0.1018	0.1436	0.7842	2.8700e-003	0.3421	2.0400e-003	0.3442	0.0911	1.9000e-003	0.0930		292.9048	292.9048	7.8900e-003	0.0126	296.8623

3.7 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.1529	11.1455	0.0183		0.3205	0.3205		0.2993	0.2993		1,698.2604	1,698.2604	0.5059		1,710.9088
Paving	0.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9830	7.1529	11.1455	0.0183		0.3205	0.3205		0.2993	0.2993		1,698.2604	1,698.2604	0.5059		1,710.9088

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.7 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2800e-003	0.2608	0.0907	1.1600e-003	0.0406	1.5600e-003	0.0422	0.0117	1.5000e-003	0.0132		125.5795	125.5795	4.3000e-003	0.0182	131.1045
Worker	0.0499	0.0284	0.3770	1.2400e-003	0.1643	7.6000e-004	0.1651	0.0436	7.0000e-004	0.0443		125.5225	125.5225	3.2300e-003	3.2800e-003	126.5804
Total	0.0561	0.2892	0.4676	2.4000e-003	0.2049	2.3200e-003	0.2073	0.0553	2.2000e-003	0.0575		251.1020	251.1020	7.5300e-003	0.0215	257.6849

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	0.4725	8.5206	12.9718	0.0183		0.1254	0.1254		0.1254	0.1254	0.0000	1,698.2604	1,698.2604	0.5059		1,710.9088
Paving	0.1633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6358	8.5206	12.9718	0.0183		0.1254	0.1254		0.1254	0.1254	0.0000	1,698.2604	1,698.2604	0.5059		1,710.9088

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

3.7 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.2800e-003	0.2608	0.0907	1.1600e-003	0.0406	1.5600e-003	0.0422	0.0117	1.5000e-003	0.0132		125.5795	125.5795	4.3000e-003	0.0182	131.1045
Worker	0.0499	0.0284	0.3770	1.2400e-003	0.1643	7.6000e-004	0.1651	0.0436	7.0000e-004	0.0443		125.5225	125.5225	3.2300e-003	3.2800e-003	126.5804
Total	0.0561	0.2892	0.4676	2.4000e-003	0.2049	2.3200e-003	0.2073	0.0553	2.2000e-003	0.0575		251.1020	251.1020	7.5300e-003	0.0215	257.6849

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	7.2914	6.9412	60.4738	0.1140	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		11,628.6545	11,628.6545	0.9789	0.5962	11,830.7941
Unmitigated	7.2914	6.9412	60.4738	0.1140	13.1948	0.0913	13.2861	3.5147	0.0851	3.5998		11,628.6545	11,628.6545	0.9789	0.5962	11,830.7941

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,308.00	1,181.56	983.18	3,550,668	3,550,668
City Park	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	600.00	644.40	515.04	704,827	704,827
Recreational Swimming Pool	0.00	0.00	0.00		
Supermarket	870.00	1,447.16	1356.33	1,162,384	1,162,384
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Strip Mall	80.00	75.88	36.88	112,810	112,810
Total	2,858.00	3,349.00	2,891.43	5,530,688	5,530,688

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	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Quality Restaurant	9.50	7.30	7.30	12.00	69.00	19.00	38	18	44
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Supermarket	9.50	7.30	7.30	6.50	74.50	19.00	34	30	36
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
City Park	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Health Club	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Other Asphalt Surfaces	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Parking Lot	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Quality Restaurant	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Recreational Swimming Pool	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Supermarket	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Unenclosed Parking with Elevator	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559
Strip Mall	0.565387	0.062253	0.175474	0.116234	0.023574	0.006359	0.009156	0.006316	0.000699	0.000586	0.028465	0.000937	0.004559

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062
Natural Gas Unmitigated	0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

Carlsbad Village Analysis for HRA Analysis Only - San Diego County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4345.7	0.0469	0.4005	0.1704	2.5600e-003		0.0324	0.0324		0.0324	0.0324		511.2583	511.2583	9.8000e-003	9.3700e-003	514.2965
City Park	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
Health Club	195.84	2.1100e-003	0.0192	0.0161	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003		23.0400	23.0400	4.4000e-004	4.2000e-004	23.1769
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2860.6	0.0309	0.2805	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5415	336.5415	6.4500e-003	6.1700e-003	338.5414
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	12.1644	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.4311	1.4311	3.0000e-005	3.0000e-005	1.4396
Supermarket	397.578	4.2900e-003	0.0390	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7739	46.7739	9.0000e-004	8.6000e-004	47.0519
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

Carlsbad Village Analysis for HRA Analysis Only - San Diego 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	4.3457	0.0469	0.4005	0.1704	2.5600e-003		0.0324	0.0324		0.0324	0.0324		511.2583	511.2583	9.8000e-003	9.3700e-003	514.2965
City Park	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
Health Club	0.19584	2.1100e-003	0.0192	0.0161	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003		23.0400	23.0400	4.4000e-004	4.2000e-004	23.1769
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Quality Restaurant	2.8606	0.0309	0.2805	0.2356	1.6800e-003		0.0213	0.0213		0.0213	0.0213		336.5415	336.5415	6.4500e-003	6.1700e-003	338.5414
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.0121644	1.3000e-004	1.1900e-003	1.0000e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005		1.4311	1.4311	3.0000e-005	3.0000e-005	1.4396
Supermarket	0.397578	4.2900e-003	0.0390	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003		46.7739	46.7739	9.0000e-004	8.6000e-004	47.0519
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0843	0.7403	0.4559	4.6000e-003		0.0582	0.0582		0.0582	0.0582		919.0448	919.0448	0.0176	0.0169	924.5062

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465
Unmitigated	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

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	0.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0063					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	0.5430	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998		32.4659	32.4659	0.0312		33.2465
Total	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

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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	0.4715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.0063					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	0.5430	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998		32.4659	32.4659	0.0312		33.2465
Total	7.0208	0.2073	18.0062	9.5000e-004		0.0998	0.0998		0.0998	0.0998	0.0000	32.4659	32.4659	0.0312	0.0000	33.2465

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
