

4300 STEVENS CREEK BOULEVARD AIR QUALITY ASSESSMENT

San José, California

December 9, 2021

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Introduction

The purpose of this report is to address air quality and community health risk impacts associated with the proposed mixed-use project located at 4300 Stevens Creek Boulevard in San José, California. The air quality impacts from this project would be associated with demolition of the existing land use, construction of the new buildings and infrastructure, and operation of the project. Air pollutant emissions associated with construction and operation of the project were estimated using appropriate computer models. In addition, the potential project health risk impacts (construction and operation) and the impacts of existing toxic air contaminant (TAC) sources affecting the nearby and proposed sensitive receptors were evaluated. The analysis was conducted following guidance provided by the Bay Area Air Quality Management District (BAAQMD).¹

Project Description

The approximately 9.22-acre site is currently developed with three existing office buildings and associated surface parking lots. The project proposes to demolish the existing building and parking lots and construct three residential buildings with 580 residential units and a 250-room hotel with approximately 8,250 square feet (sf) of ground-floor retail. Two of the residential buildings would provide 407 market rate units, and the third would provide 173 below market rate units. Vehicle parking would be provided in a parking garage within each building totaling 725 parking spaces.

Setting

The project is located in Santa Clara County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM₁₀), and fine particulate matter (PM_{2.5}).

Air Pollutants of Concern

High ozone levels are caused by the cumulative emissions of reactive organic gases (ROG) and nitrogen oxides (NO_x). These precursor pollutants react under certain meteorological conditions to form high ozone levels. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ozone levels. The highest ozone levels in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone levels aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

Particulate matter is another problematic air pollutant of the Bay Area. Particulate matter is assessed and measured in terms of respirable particulate matter or particles that have a diameter of 10 micrometers or less (PM₁₀) and fine particulate matter where particles have a diameter of 2.5 micrometers or less (PM_{2.5}). Elevated concentrations of PM₁₀ and PM_{2.5} are the result of both region-wide (or cumulative) emissions and localized emissions. High particulate matter levels aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

¹ Bay Area Air Quality Management District, *CEQA Air Quality Guidelines*, May 2017.

Toxic Air Contaminants

Toxic air contaminants (TAC) are a broad class of compounds known to cause morbidity or mortality. TACs are found in ambient air, especially in urban areas, and are caused by industry, agriculture, fuel combustion, and commercial operations (e.g., dry cleaners). TACs are typically found in low concentrations, even near their source (e.g., diesel particulate matter [DPM] near a freeway). Because chronic exposure can result in adverse health effects, TACs are regulated at the regional, State, and federal level.

Diesel exhaust is the predominant TAC in urban air and is estimated to represent about three-quarters of the cancer risk from TACs (based on the Bay Area average). According to the California Air Resources Board (CARB), diesel exhaust is a complex mixture of gases, vapors, and fine particles. This complexity makes the evaluation of health effects of diesel exhaust a complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. The most recent Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines were published in February of 2015.² See *Attachment 1* for a detailed description of the community risk modeling methodology used in this assessment.

Sensitive Receptors

There are groups of people more affected by air pollution than others. CARB has identified the following persons who are most likely to be affected by air pollution: children under 16, the elderly over 65, athletes, and people with cardiovascular and chronic respiratory diseases. These groups are classified as sensitive receptors. Locations that may contain a high concentration of these sensitive population groups include residential areas, hospitals, daycare facilities, elder care facilities, elementary schools, and parks. For cancer risk assessments, residential locations are assumed to include infants and small children and children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. The closest sensitive receptors to the project site are the residents in the multi-family apartments to the south of the site across Albany Drive. There are additional sensitive receptors at farther distances to the north of the site. Additionally, the project would introduce new sensitive receptors (i.e., residents) to the area.

Regulatory Setting

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards for mobile sources, which include on-road (highway) motor vehicles such trucks, buses, and automobiles, and non-road (off-road) vehicles and equipment used in construction, agricultural, industrial, and mining activities (such as bulldozers and loaders). The EPA also sets nationwide fuel standards. California has the ability to set motor vehicle emission standards and standards for fuel used in California, as long as they are the same or more stringent than the federal standards.

² OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

In the past decade the EPA has established a number of emission standards for on- and non-road heavy-duty diesel engines used in trucks and other equipment. This was done in part because diesel engines are a significant source of NO_x and particulate matter (PM₁₀ and PM_{2.5}) and because the EPA has identified DPM as a probable carcinogen. Implementation of the heavy-duty diesel on-road vehicle standards and the non-road diesel engine standards are estimated to reduce particulate matter and NO_x emissions from diesel engines up to 95 percent in 2030 when the heavy-duty vehicle fleet is completely replaced with newer heavy-duty vehicles that comply with these emission standards.³

In concert with the diesel engine emission standards, the EPA has also substantially reduced the amount of sulfur allowed in diesel fuels. The sulfur contained in diesel fuel is a significant contributor to the formation of particulate matter in diesel-fueled engine exhaust. The new standards reduced the amount of sulfur allowed by 97 percent for highway diesel fuel (from 500 parts per million by weight [ppmw] to 15 ppmw), and by 99 percent for off-highway diesel fuel (from about 3,000 ppmw to 15 ppmw). The low sulfur highway fuel (15 ppmw sulfur), also called ultra-low sulfur diesel (ULSD), is currently required for use by all vehicles in the U.S.

All of the above federal diesel engine and diesel fuel requirements have been adopted by California, in some cases with modifications making the requirements more stringent or the implementation dates sooner.

State Regulations

To address the issue of diesel emissions in the state, CARB developed the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles.⁴ In addition to requiring more stringent emission standards for new on-road and off-road mobile sources and stationary diesel-fueled engines to reduce particulate matter emissions by 90 percent, a significant component of the plan involves application of emission control strategies to existing diesel vehicles and equipment. Many of the measures of the Diesel Risk Reduction Plan have been approved and adopted, including the federal on-road and non-road diesel engine emission standards for new engines, as well as adoption of regulations for low sulfur fuel in California.

CARB has adopted and implemented a number of regulations for stationary and mobile sources to reduce emissions of DPM. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. CARB regulations require on-road diesel trucks to be retrofitted with particulate matter controls or replaced to meet 2010 or later engine standards that have much lower DPM and PM_{2.5} emissions. This regulation will substantially reduce these emissions between 2013 and 2023. While new trucks and buses will meet strict federal standards, this measure is intended to accelerate the rate at which the fleet either turns over so there are more cleaner vehicles on the road or retrofitted

³ USEPA, 2000. *Regulatory Announcement, Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*. EPA420-F-00-057. December.

⁴ California Air Resources Board, 2000. *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. October.

to meet similar standards. With this regulation, older, more polluting trucks would be removed from the roads sooner.

CARB has also adopted and implemented regulations to reduce DPM and NO_x emissions from in-use (existing) and new off-road heavy-duty diesel vehicles (e.g., loaders, tractors, bulldozers, backhoes, off-highway trucks, etc.). The regulations apply to diesel-powered off-road vehicles with engines 25 horsepower (hp) or greater. The regulations are intended to reduce particulate matter and NO_x exhaust emissions by requiring owners to turn over their fleet (replace older equipment with newer equipment) or retrofit existing equipment in order to achieve specified fleet-averaged emission rates. Implementation of this regulation, in conjunction with stringent federal off-road equipment engine emission limits for new vehicles, will significantly reduce emissions of DPM and NO_x in the future.

Bay Area Air Quality Management District (BAAQMD)

BAAQMD has jurisdiction over an approximately 5,600-square mile area, commonly referred to as the San Francisco Bay Area (Bay Area). The District's boundary encompasses nine San Francisco Bay Area counties, including Alameda County, Contra Costa County, Marin County, San Francisco County, San Mateo County, Santa Clara County, Napa County, southwestern Solano County, and southern Sonoma County.

BAAQMD is the lead agency in developing plans to address attainment and maintenance of the National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS). The District also has permit authority over most types of stationary equipment utilized for the proposed project. The BAAQMD is responsible for permitting and inspection of stationary sources; enforcement of regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances are minimized.

BAAQMD's Community Air Risk Evaluation (CARE) program was initiated in 2004 to evaluate and reduce health risks associated with exposures to outdoor TACs in the Bay Area.⁵ The program examines TAC emissions from point sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to airborne health risk in California. The CARE program is an on-going program that encourages community involvement and input. The technical analysis portion of the CARE program is being implemented in three phases that includes an assessment of the sources of TAC emissions, modeling and measurement programs to estimate concentrations of TAC, and an assessment of exposures and health risks. Throughout the program, information derived from the technical analyses will be used to focus emission reduction measures in areas with high TAC exposures and high density of sensitive populations. Risk reduction activities associated with the CARE program are focused on the most at-risk communities in the Bay Area. Overburdened communities are areas located (i) within a census tract identified by the California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0 implemented by OEHHA, as having an overall CalEnviroScreen

⁵ See BAAQMD: <https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program>, accessed 2/18/2021.

score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.⁶ The BAAQMD has identified six communities as impacted: Concord, Richmond/San Pablo, Western Alameda County, San José, Redwood City/East Palo Alto, and Eastern San Francisco. The project site is not within a CARE area and not within a BAAQMD overburdened area as identified by CalEnviroScreen.

The BAAQMD California Environmental Quality Act (CEQA) *Air Quality Guidelines*⁷ were prepared to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The guidelines provide recommended procedures for evaluating potential air impacts during the environmental review process consistent with CEQA requirements including thresholds of significance, mitigation measures, and background air quality information. They also include assessment methodologies for TACs, odors, and greenhouse gas (GHG) emissions. *Attachment 1* includes detailed community risk modeling methodology.

San José Envision 2040 General Plan

The San José Envision 2040 General Plan includes goals, policies, and actions to reduce exposure of the City's sensitive population to exposure of air pollution and toxic air contaminants or TACs. The following goals, policies, and actions are applicable to the proposed project and this assessment:

Applicable Goals – Air Pollutant Emission Reduction

Goal MS-10 Minimize emissions from new development.

Applicable Policies – Air Pollutant Emission Reduction

- MS-10.1 Assess projected air emissions from new development in conformance with the Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines and relative to state and federal standards. Identify and implement feasible air emission reduction measures.
- MS-10.2 Consider the cumulative air quality impacts from proposed developments for proposed land use designation changes and new development, consistent with the region's Clean Air Plan and State law.
- MS-10.5 In order to reduce vehicle miles traveled and traffic congestion, require new development within 2,000 feet of an existing or planned transit station to encourage the use of public transit and minimize the dependence on the automobile through the application of site design guidelines and transit incentives.
- MS-10.7 Encourage regional and statewide air pollutant emission reduction through energy conservation to improve air quality.

⁶ See BAAQMD: https://www.baaqmd.gov/~media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofverburdenedcommunities-pdf.pdf?la=en, accessed 10/1/2021.

⁷ Bay Area Air Quality Management District, 2017. *CEQA Air Quality Guidelines*. May.

- MS-10.11 Enforce the City’s wood-burning appliance ordinance to limit air pollutant emissions from residential and commercial buildings.
- MS-10.13 As a part of City of San José Sustainable City efforts, educate the public about air polluting household consumer products and activities that generate air pollution. Increase public awareness about the alternative products and activities that reduce air pollutant emissions.

Applicable Goals – Toxic Air Contaminants

- Goal MS-11 Minimize exposure of people to air pollution and toxic air contaminants such as ozone, carbon monoxide, lead, and particulate matter.

Applicable Policies – Toxic Air Contaminants

- MS-11.1 Require completion of air quality modeling for sensitive land uses such as new residential developments that are located near sources of pollution such as freeways and industrial uses. Require new residential development projects and projects categorized as sensitive receptors to incorporate effective mitigation into project designs or be located an adequate distance from sources of toxic air contaminants (TACs) to avoid significant risks to health and safety.
- MS-11.2 For projects that emit toxic air contaminants, require project proponents to prepare health risk assessments in accordance with BAAQMD-recommended procedures as part of environmental review and employ effective mitigation to reduce possible health risks to a less than significant level. Alternatively, require new projects (such as, but not limited to, industrial, manufacturing, and processing facilities) that are sources of TACs to be located an adequate distance from residential areas and other sensitive receptors.
- MS-11.4 Encourage the installation of appropriate air filtration at existing schools, residences, and other sensitive receptor uses adversely affected by pollution sources.
- MS-11.5 Encourage the use of pollution absorbing trees and vegetation in buffer areas between substantial sources of TACs and sensitive land uses.

Actions – Toxic Air Contaminants

- MS-11.6 Develop and adopt a comprehensive Community Risk Reduction Plan that includes: baseline inventory of toxic air contaminants (TACs) and particulate matter smaller than 2.5 microns (PM_{2.5}), emissions from all sources, emissions reduction targets, and enforceable emission reduction strategies and performance measures. The Community Risk Reduction Plan will include enforcement and monitoring tools to ensure regular review of progress toward the emission reduction targets, progress reporting to the public and responsible agencies, and periodic updates of the plan, as appropriate.

MS-11.7 Consult with BAAQMD to identify stationary and mobile TAC sources and determine the need for and requirements of a health risk assessment for proposed developments.

MS-11.8 For new projects that generate truck traffic, require signage which reminds drivers that the State truck idling law limits truck idling to five minutes.

Applicable Goals – Objectional Odors

Goal MS-12 Minimize and avoid exposure of residents to objectionable odors.

Applicable Policies – Objectional Odors

MS-12.2 Require new residential development projects and projects categorized as sensitive receptors to be located an adequate distance from facilities that are existing and potential sources of odor. An adequate separation distance will be determined based upon the type, size and operations of the facility.

Applicable Goals – Construction Air Emissions

Goal MS-13 Minimize air pollutant emissions during demolition and construction activities.

Applicable Policies – Construction Air Emissions

MS-13.1 Include dust, particulate matter, and construction equipment exhaust control measures as conditions of approval for subdivision maps, site development and planned development permits, grading permits, and demolition permits. At minimum, conditions shall conform to construction mitigation measures recommended in the current BAAQMD CEQA Guidelines for the relevant project size and type.

Applicable Actions – Construction Air Emissions

MS-13.4 Adopt and periodically update dust, particulate, and exhaust control standard measures for demolition and grading activities to include on project plans as conditions of approval based upon construction mitigation measures in the BAAQMD CEQA Guidelines.

Significance Thresholds

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA and these significance thresholds were contained in the District's 2011 CEQA Air Quality Guidelines. These thresholds were designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA. The thresholds were challenged through a series of court challenges and were mostly upheld. BAAQMD updated the CEQA Air Quality Guidelines in 2017 to include the latest significance thresholds, which were used in this analysis and are summarized in Table 1. Impacts above these thresholds are considered potentially significant.

Table 1. BAAQMD CEQA Significance Thresholds

Criteria Air Pollutant	Construction Thresholds	Operational Thresholds	
	Average Daily Emissions (lbs./day)	Average Daily Emissions (lbs./day)	Annual Average Emissions (tons/year)
ROG	54	54	10
NO _x	54	54	10
PM ₁₀	82 (Exhaust)	82	15
PM _{2.5}	54 (Exhaust)	54	10
CO	Not Applicable	9.0 ppm (8-hour average) or 20.0 ppm (1-hour average)	
Fugitive Dust	Construction Dust Ordinance or other Best Management Practices	None	
Health Risks and Hazards	Single Sources Within 1,000-foot Zone of Influence	Combined Sources (Cumulative from all sources within 1000-foot zone of influence)	
Excess Cancer Risk	10 per one million	100 per one million	
Hazard Index	1.0	10.0	
Incremental annual PM _{2.5}	0.3 µg/m ³	0.8 µg/m ³	
Note: ROG = reactive organic gases, NO _x = nitrogen oxides, PM ₁₀ = course particulate matter or particulates with an aerodynamic diameter of 10 micrometers (µm) or less, PM _{2.5} = fine particulate matter or particulates with an aerodynamic diameter of 2.5µm or less. GHG = greenhouse gases.			

Source: Bay Area Air Quality Management District, 2017

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Impact AIR-1: Conflict with or obstruct implementation of the applicable air quality plan?

BAAQMD is the regional agency responsible for overseeing compliance with State and federal laws, regulations, and programs within the San Francisco Bay Area Air Basin (SFBAAB). BAAQMD, with assistance from the Association of Bay Area Governments (ABAG) and Metropolitan Transportation Commission (MTC), prepares and implements specific plans to meet the applicable laws, regulations, and programs. The most recent and comprehensive of which is the *Bay Area 2017 Clean Air Plan*.⁸ The primary goals of the Clean Air Plan are to attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions and protect the climate. The BAAQMD has also developed CEQA guidelines to assist lead agencies in evaluating the significance of air quality and GHG impacts. In formulating compliance strategies, BAAQMD relies on the planned land uses identified in local general plans. Land use planning affects vehicle travel, which, in turn, affects region-wide emissions of air pollutants and GHGs.

The 2017 Clean Air Plan, adopted by BAAQMD in April 2017, includes control measures that are intended to reduce air pollutant emissions in the Bay Area either directly or indirectly. General Plans must show consistency with the control measures listed within the Clean Air Plan. However, at the project-level, there are no consistency measures or thresholds. Despite this, the proposed project would not conflict with the latest Clean Air planning efforts since 1) the project would have construction and operational emissions below the BAAQMD thresholds (see Impact 2 below), 2) the project would be considered urban infill, 3) the project would be located near employment centers, and 4) the project would be located near transit with regional connections.

Impact AIR-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?

The Bay Area is considered a non-attainment area for ground-level ozone and PM_{2.5} under both the Federal Clean Air Act and the California Clean Air Act. The area is also considered non-attainment for PM₁₀ under the California Clean Air Act, but not the federal act. The area has attained both State and federal ambient air quality standards for carbon monoxide. As part of an effort to attain and maintain ambient air quality standards for ozone and PM₁₀, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. These thresholds are for ozone precursor pollutants (ROG and NO_x), PM₁₀, and PM_{2.5} and apply to both construction period and operational period impacts.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2020.4.0 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types, size, and anticipated construction schedule were input to CalEEMod. The CARB Emission FACTors 2021 (EMFAC2021) model was used to predict emissions from

⁸ Bay Area Air Quality Management District (BAAQMD), 2017. *Final 2017 Clean Air Plan*.

construction traffic, which includes worker travel, vendor trucks, and haul trucks.⁹ The CalEEMod model output along with construction inputs are included in *Attachment 2* and EMFAC2021 vehicle emissions modeling outputs are included in *Attachment 3*.

CalEEMod Inputs

Land Use Inputs

The proposed project land uses were entered into CalEEMod as described in Table 2.

Table 1. Summary of Project Construction Land Use Inputs

Project Land Uses	Size	Units	Square Feet	Acreage
Apartments Mid Rise	580	Dwelling Units	591,849	9.22
Hotel	250	Rooms	152,903	
Strip Mall	8.26	1,000 Square Feet	8,259	
Enclosed Parking with Elevator	725	Parking Spaces	332,270	

Construction Inputs

CalEEMod computes annual emissions for construction that are based on the project type, size, and acreage. The model provides emission estimates for both on-site and off-site construction activities. On-site activities are primarily made up of construction equipment emissions, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including equipment list and schedule, were based on CalEEMod defaults for a project of this type and size that was then reviewed and updated by the project applicant.

The project construction equipment worksheet approved by the applicant included the schedule for each phase. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays was based on CalEEMod defaults. Since different equipment would have different estimates of the working days per phase, the hours per day for each phase was computed by dividing the total number of hours that the equipment would be used by the total number of days in that phase. The construction schedule assumed that the earliest possible start date would be January 2023 and the project would be built out over a period of approximately 31 months or 664 construction workdays. The earliest year of operation was assumed to be 2026.

Construction Traffic Emissions

Construction would produce traffic in the form of worker trips and truck traffic. The traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimate of demolition material to be exported, soil material imported and/or exported to the site, and the estimate of cement and asphalt truck trips. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. The total trips for those were computed by multiplying the daily trip rate by the number of days in that phase. Haul trips for demolition and grading were estimated from the provided demolition and grading volumes

⁹ See CARB's EMFAC2021 Emissions Inventory at <https://arb.ca.gov/emfac/emissions-inventory>

and assuming each truck could carry 10 tons per load. The number of concrete and asphalt total round haul trips were estimated for the project and converted to total one-way trips, assuming two trips per delivery.

The latest version of the CalEEMod model is based on the older version of the CARB EMFAC2017 motor vehicle emission factor model. This model has been superseded by the EMFAC2021 model; however, CalEEMod has not been updated to include EMFAC2021. The construction traffic information was combined with EMFAC2021 motor vehicle emissions factors. EMFAC2021 provides aggregate emission rates in grams per mile for each vehicle type. The vehicle mix for this study was based on CalEEMod defaults, where worker trips are assumed to be comprised of light-duty autos (EMFAC category LDA) and light duty trucks (EMFAC category LDT1 and LDT2). Vendor trips are comprised of delivery and large trucks (EMFAC category MHDT and HHDT) and haul trips, including cement trucks, are comprised of large trucks (EMFAC category HHDT). Travel distances are based on CalEEMod default lengths, which are 10.8 miles for worker travel, 7.3 miles for vendor trips and 20 miles for hauling (demolition material export and soil import/export). Since CalEEMod does not address cement or asphalt trucks, these were treated as vendor travel distances. Each trip was assumed to include an idle time of 5 minutes. Emissions associated with vehicle starts were also included. On-road emission rates from the years 2023-2025 for Santa Clara County were used. Table 3 provides the traffic inputs that were combined with the EMFAC2021 emission database to compute vehicle emissions.

Table 2. Construction Traffic Data Used for EMFAC2021 Model Runs

CalEEMod Run/Land Uses and Construction Phase	Trips by Trip Type			Notes
	Total Worker ¹	Total Vendor ¹	Total Haul ²	
Vehicle mix ¹	50% LDA 25% LDT1 25% LDT2	50% MHDT 50% HHDT	100% HHDT	
Trip Length (miles)	10.8	7.3	20.0 (Demo/Soil) 7.3 (Cement/Asphalt)	CalEEMod default distance with 5-min truck idle time.
Demolition	450	-	907	77,060-sf of existing building demolition and 250,000 tons of pavement demolition. Default worker trips.
Site Preparation	360	-	-	Default worker trips.
Grading	900	-	1,031	8,250-cy of export soil volumes. CalEEMod default worker trips.
Trenching	225	-	-	CalEEMod default worker trips.
Building Construction	312,000	71,500	1,778	Estimated 200,000-sf of cement. CalEEMod default worker and vendor trips.
Interior Construction	4375	-	-	CalEEMod default worker trips.
Paving	525	-	122	Estimated 55,000-sf of asphalt. CalEEMod default worker trips.
Notes: ¹ Based on 2023-2025 EMFAC2021 light-duty vehicle fleet mix for Santa Clara County. ² Includes demolition and grading trips estimated by CalEEMod based on amount of material to be removed. Cement and asphalt trips estimated based on proposed building and asphalt GSF.				

Summary of Computed Construction Period Emissions

Average daily emissions were annualized for each year of construction by dividing the annual construction emissions by the number of active workdays during that year. Table 4 shows the unmitigated annualized average daily construction emissions of ROG, NO_x, PM₁₀ exhaust, and PM_{2.5} exhaust during construction of the project.

As indicated in Table 4, annualized project construction ROG emissions are predicted to exceed the BAAQMD significance thresholds for ROG in 2025. However, with implementation of *Mitigation Measures AQ-1 through AQ-3*, the ROG emissions would be reduced to a level below the significance thresholds of 54 pounds per day. All other construction criteria pollutants emissions are below the BAAQMD thresholds.

Table 3. Construction Period Emissions - Unmitigated

Year	ROG		NO _x		PM ₁₀ Exhaust		PM _{2.5} Exhaust	
<i>Construction Emissions Per Year (Tons)</i>								
Year	Unmit	Mit	Unmit	Mit	Unmit	Mit	Unmit	Mit
2023	0.27	0.09	2.63	1.74	0.12	0.01	0.11	0.01
2024	0.19	0.07	1.76	1.43	0.08	0.01	0.08	0.01
2025	5.14	1.04	0.63	0.59	0.03	<0.01	0.03	<0.01
<i>Annualized Daily Construction Emissions (pounds/day)</i>								
Year	Unmit	Mit	Unmit	Mit	Unmit	Mit	Unmit	Mit
2023 (260 construction workdays)	3.64	2.20	25.68	18.83	1.34	0.50	1.03	0.25
2024 (262 construction workdays)	2.91	1.98	18.58	16.05	1.02	0.50	0.74	0.25
2025 (142 construction workdays)	73.82	16.03	13.69	13.22	0.80	0.46	0.52	0.22
<i>BAAQMD Thresholds (pounds per day)</i>	54 lbs./day		54 lbs./day		82 lbs./day		54 lbs./day	
Exceed Threshold?	Yes (2025)	No	No	No	No	No	No	No
Notes: Unmit = Unmitigated, Mit = Mitigated								

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM₁₀ and PM_{2.5}. Sources of fugitive dust would include disturbed soils at the construction site and trucks carrying uncovered loads of soils. Unless properly controlled, vehicles leaving the site would deposit mud on local streets, which could be an additional source of airborne dust after it dries. The BAAQMD CEQA Air Quality Guidelines consider these impacts to be less than significant if best management practices are implemented to reduce these emissions. *Mitigation Measure AQ-1 would implement BAAQMD-recommended best management practices* needed to control PM_{2.5} concentrations at nearby sensitive receptors.

Mitigation Measure AQ-1: Implement BAAQMD-Recommended Standard Measures to Control Particulate Matter Emissions during Construction.

During any construction period ground disturbance, the applicant shall ensure that the project contractor implement measures to control dust and exhaust. Implementation of the measures recommended by BAAQMD and listed below would reduce the air quality impacts associated with grading and new construction to a less-than-significant level. Additional measures are identified

to reduce construction equipment exhaust emissions. The contractor shall implement the following best management practices that are required of all projects:

1. All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
2. All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour (mph).
5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.
6. Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.
7. All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
8. Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

Effectiveness of Mitigation Measure AQ-1

Mitigation Measure AQ-1 represents standard mitigation measures that would achieve greater than a 50 percent reduction in on-site fugitive PM_{2.5} emissions. These measures are consistent with recommendations in the BAAMQD CEQA Guidance for providing "best management practices" to control construction emissions.

Mitigation Measure AQ-2: Use Construction equipment that has low diesel particulate matter exhaust and NO_x emissions.

Exhaust Emission (NO_x and PM) Control Measures:

Implement a feasible plan to reduce diesel particulate matter emissions by 50 percent such that increased cancer risk and annual PM_{2.5} concentrations from construction would be reduced below TAC significance levels is as follows:

1. All construction equipment larger than 25 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 emission standards for NO_x and PM (PM₁₀ and PM_{2.5}), if feasible, otherwise,
 - a. If use of Tier 4 equipment is not available, alternatively use equipment that meets U.S. EPA emission standards for Tier 2 or 3 engines and include particulate matter emissions control equivalent to CARB verifiable diesel emission control devices that altogether achieve a 50 percent reduction in particulate matter exhaust in comparison to uncontrolled equipment; alternatively (or in combination).
 - b. Use of electrical or non-diesel equipment with lower NO_x emissions that meet the NO_x and PM reduction requirements above.
2. Alternatively, the applicant may develop another construction operations plan demonstrating that the construction equipment used on-site would achieve a reduction in construction diesel particulate matter emissions by 50 percent or greater. Elements of the plan could include a combination of some of the following measures:
 - Implementation of No. 1 above to use Tier 4 or alternatively fueled equipment,
 - Installation of electric power lines during early construction phases to avoid use of diesel generators and compressors,
 - Use of electrically-powered equipment,
 - Forklifts and aerial lifts used for exterior and interior building construction shall be electric or propane/natural gas powered,
 - Change in construction build-out plans to lengthen phases, and
 - Implementation of different building techniques that result in less diesel equipment usage.

Such a construction operations plan would be subject to review by an air quality expert and approved by the City prior to construction.

Mitigation Measure AQ-3: Require use of low VOC coatings to reduce ROG emissions.

The project shall use "super-compliant" low volatile organic compound (i.e., ROG) coatings, that are below current BAAQMD requirements (i.e., Regulation 8, Rule 3: Architectural Coatings), for at least 80 percent of all residential and nonresidential interior paints and 80 percent of exterior paints. This includes all architectural coatings applied during both construction and reapplications throughout the project's operational lifetime. At least 80 percent of coatings applied must meet a

“super-compliant” VOC standard of less than 10 grams of VOC per liter of paint. For reapplication of coatings during the project’s operational lifetime, the Declaration of Covenants, Conditions, and Restrictions shall contain a stipulation for low VOC coatings to be used. Examples of “super-compliant” coatings are contained in the South Coast Air Quality Management District’s website.¹⁰

Effectiveness of Mitigation AQ-2 and AQ-3

The effectiveness of MM AQ-2 and AQ-3 are based on CalEEMod modeling conducted to estimate the impacts associated with using Tier 4 interim construction equipment and using 80 percent interior and exterior “super-compliant” coatings. These measures together were found by CalEEMod to reduce on-site construction ROG emissions by 79-percent and below the significant threshold.

Operational Period Emissions

Operational air emissions from the project would be generated primarily from autos driven by residents, employees, and customers. Evaporative ROG emissions from architectural coatings and maintenance products (classified as consumer products) are also associated with these types of projects. CalEEMod was used to estimate emissions from operation of the proposed project assuming full build-out.

CalEEMod Inputs

Land Uses

The project land uses were input to CalEEMod as described above for the construction period modeling.

Model Year

Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CalEEMod. The earliest full year of operation would be 2026 if construction begins in 2023. Emissions associated with build-out later than 2026 would be lower.

Traffic Information

CalEEMod allows the user to enter specific vehicle trip generation rates. Therefore, the project-specific daily trip generation rate provided by the traffic consultant was entered into the model.¹¹ The project would produce approximately 2,480 net daily trips when considering the *Residential/Retail Internal Capture Reduction, Location-Based Vehicle Mode Share Reduction, Project-Specific Trip Reduction* and existing trip adjustments applied in the traffic analysis. The daily trip generation was calculated using the size of the project and the adjusted total automobile

¹⁰ SCAQMD: <http://www.aqmd.gov/home/regulations/compliance/architectural-coatings/super-compliant-coatings>

¹¹ Email correspondence with Patrick Kallas, Associate Project Manager, David J. Powers & Associates, Inc., October 20, 2021.

trips. The Saturday and Sunday trip rates were adjusted by multiplying the ratio of the CalEEMod default rates for Saturday and Sunday trips to the default weekday rate with the project-specific daily weekday trip rate. The default trip lengths and trip types specified by CalEEMod were used.

EMFAC2021 Adjustment

The vehicle emission factors and fleet mix used in CalEEMod are based on EMFAC2017, which is an older CARB emission inventory for on road and off road mobile sources. Since the release of CalEEMod Version 2020.4.0, new emission factors have been produced by CARB. EMFAC2021 became available for use in January 2021. It includes the latest data on California's car and truck fleets and travel activity. The CalEEMod default vehicle emission factors and fleet mix were updated using the emission rates and fleet mix from EMFAC2021. On road emission rates from 2026 Santa Clara County were used (See *Attachment 3*). More details about the updates in emissions calculation methodologies and data are available in the EMFAC2021 Technical Support Document.¹²

Climate Smart San José

Climate Smart San José is a plan to reduce air pollution, save water, and create a stronger and healthier community. The City approved goals and milestones in February 2018 to ensure the City can substantially reduce GHG emissions through reaching the following goals and milestones:

- All new residential buildings will be Zero Net Carbon Emissions (ZNE) by 2020 and all new commercial buildings will be ZNE by 2030 (Note that ZNE buildings would be all electric with a carbon-free electricity source).
- San José Clean Energy (SJCE) will provide 100-percent carbon-free base power by 2021.
- One gigawatt of solar power will be installed in San José by 2040.
- 61 percent of passenger vehicles will be powered by electricity by 2030.

The California Energy Commission (CEC) updates the California Building Energy Efficiency Standards every three years, in alignment with the California Code of regulations. Title 24 Parts 6 and 11 of the California Building Energy Efficiency Standards and the California Green Building Standards Code (CALGreen) address the need for regulations to improve energy efficiency and combat climate change. The 2019 CAL Green standards include substantial changes intended to increase the energy efficiency of buildings. For example, the code encourages the installation of solar and heat pump water heaters in low-rise residential buildings. The 2019 California Code went before City Council in October 2019 for approval, with an effective date of January 1, 2020. As part of this action, the City adopted a “reach code” that requires development projects to exceed the minimum Building Energy Efficiency requirements.¹³ The City's reach code applies only to new residential and non-residential construction in San José. It incentivizes all-electric construction, requires increased energy efficiency and electrification-readiness for those choosing to maintain the presence of natural gas. The code requires that non-residential construction include

¹² See CARB 2021: <https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/road-documentation/msei-modeling-tools-emfac>

¹³ City of San José Transportation and Environmental Committee, *Building Reach Code for New Construction Memorandum*, August 2019.

solar readiness. It also requires additional EV charging readiness and/or electric vehicle service equipment (EVSE) installation for all development types.

Energy – Electricity

CalEEMod defaults for energy use were used, which include the 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. CalEEMod has a default emission factor of 807.98 pounds of CO₂ per megawatt of electricity produced, which is based on San José Clean Energy (SJCE)'s 2021 emissions rate. This intensity factor was used in the model along with the assumption that the project would use electricity supplied by SJCE. SJCE would provide electricity that would be 100-percent carbon free by 2021 before the project becomes operational.¹⁴ Electricity was assumed to be 100-percent carbon free in the model since this project would be operational post-2021. Electricity emissions only affect indirect emission of GHG.

Energy – Natural Gas

The City of San José passed an ordinance in December 2020 that prohibits the use of natural gas infrastructure in new residential, office, and most retail-type buildings.¹⁵ This ordinance applies to any new construction starting August 1, 2021. Therefore, natural gas use for the project use was set to zero and assigned to electricity use.

Other Inputs

Default model assumptions for emissions associated with solid waste generation and water/wastewater use were applied to the project. Water/wastewater use was changed to 100 percent aerobic/anaerobic conditions to represent wastewater treatment plant conditions. The project site would not send wastewater to septic tanks or facultative lagoons.

Existing Uses

The existing site consist of three office buildings and associated surface parking lots. A CalEEMod model run was developed to compute emissions from use of the existing land uses as if it were operating in 2026. Inputs for the existing conditions scenario included 136,800-sf entered as “General Office Building” and 6.08 acres entered as “Parking Lot”. The existing trip generation rates and other inputs were applied to the existing modeling in the same manner described for the proposed project. Historical energy usage was applied.

¹⁴ Kerrie Romanow and Rosalynn Hughey, City of San José, 2019. *Building reach Code for New Construction Memorandum*. August. Web: <https://sanjose.legistar.com/LegislationDetail.aspx?ID=4090015&GUID=278596A7-1A2B-4248-B794-7A34E2279E85>

¹⁵ City of San Jose, 2020. “Expand Natural Gas Ban”, December. Web: <https://www.sanjoseca.gov/Home/Components/News/News/2210/4699>

Summary of Computed Operational Emissions

Annual emissions were predicted using CalEEMod and daily emissions were estimating assuming 365 days of operation. Table 5 shows unmitigated net average daily operational emissions of ROG, NO_x, total PM₁₀, and total PM_{2.5} during operation of the project. The unmitigated operational period emissions would not exceed the BAAQMD significance thresholds.

Table 5. Operational Period Emissions

Scenario	ROG	NO _x	PM ₁₀	PM _{2.5}
2026 Annual Project Operational Emissions (<i>tons/year</i>)	5.41	1.26	2.41	0.63
2026 Existing Use Emissions (<i>tons/year</i>)	1.04	0.39	0.59	0.15
Net Annual Emissions (<i>tons/year</i>)	4.37	0.87	1.82	0.48
BAAQMD Thresholds (<i>tons /year</i>)	10 tons	10 tons	15 tons	10 tons
Exceed Threshold?	No	No	No	No
2026 Daily Project Operational Emissions (<i>pounds/day</i>) ¹	23.96	4.76	9.98	2.61
BAAQMD Thresholds (<i>pounds/day</i>)	54 lbs.	54 lbs.	82 lbs.	54 lbs.
Exceed Threshold?	No	No	No	No

Notes: ¹Assumes 365-day operation.

Impact AIR-3: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased community risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors in the project vicinity or by significantly exacerbating existing cumulative TAC impacts. This project would introduce new sources of TACs during construction (i.e., on-site construction and truck hauling emissions) and operation (i.e., stationary and mobile sources).

Project construction activity would generate dust and equipment exhaust that would affect nearby sensitive receptors. The project would not include the installation of any stationary TAC emissions sources but would increase traffic consisting of mostly light-duty vehicles, which would produce TAC and air pollutant emissions.

Project impacts to existing sensitive receptors were addressed for temporary construction activities and long-term operational conditions. There are also several sources of existing TACs and localized air pollutants in the vicinity of the project. The impact of the existing sources of TAC was also assessed in terms of the cumulative risk which includes the project contribution, as well as the risk on the new sensitive receptors introduced by the project.

Community Risk Methodology for Construction and Operation

Community TAC risk impacts were assessed by predicting increased cancer risk, the increase in annual PM_{2.5} concentrations and computing the Hazard Index (HI) for non-cancer health risks. The risk impacts from the project are the combination of risks from construction and operation sources of TACs. These sources include on-site construction activity, construction truck hauling, project generators, and increased traffic from the project. To evaluate the increased cancer risks from the

project, a 30-year exposure period was used, per BAAQMD guidance,¹⁷ with the sensitive receptors being exposed to both project construction and operation emissions during this timeframe.

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions over the 30-year period. Unlike the increased maximum cancer risk, the annual PM_{2.5} concentration and HI values are not additive but based on the annual maximum risk for the entirety of the project. The project maximally exposed individual (MEI) is identified as the sensitive receptor that is most impacted by the project's construction and operation.

The methodology for computing community risks impacts is contained in *Attachment 1*. This involved the calculation of TAC and PM_{2.5} emissions, dispersion modeling of these emissions, and computations of cancer risk and non-cancer health effects.

Modeled Sensitive Receptors

Receptors for this assessment included locations where sensitive populations would be present for extended periods of time (i.e., chronic exposures). This includes all existing residences to the south and north the project site, as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to project emissions.

Community Risks from Project Construction

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust, which is a known TAC. These exhaust air pollutant emissions would not be considered to contribute substantially to existing or projected air quality violations. Construction exhaust emissions may still pose health risks for sensitive receptors such as surrounding residents. The primary community risk impacts associated with construction emissions are cancer risk and exposure to PM_{2.5}. Diesel exhaust (i.e., DPM) poses both a potential health and nuisance impact to nearby receptors. A health risk assessment of the project construction activities was conducted that evaluated potential health effects to nearby sensitive receptors from construction emissions of DPM and PM_{2.5}.¹⁸ This assessment included dispersion modeling to predict the offsite and onsite concentrations resulting from project construction, so that increased cancer risks and non-cancer health effects could be evaluated.

Construction Emissions

The CalEEMod and EMFAC2021 models provided total annual PM₁₀ exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total DPM emissions from all construction stages estimated to be 0.24 tons (474 pounds). The on-road emissions are a result of haul truck travel during demolition and grading activities, worker travel, and vendor deliveries during construction. A trip length of half a mile

¹⁷ BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

¹⁸ DPM is identified by California as a toxic air contaminant due to the potential to cause cancer.

was used to represent vehicle travel while at or near the construction site. Fugitive PM_{2.5} dust emissions were calculated by CalEEMod to be 0.20 tons (398 pounds) for the overall construction period.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and PM_{2.5} concentrations at sensitive receptors (residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.¹⁹ Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive PM_{2.5} dust emissions.

Construction Sources

Combustion equipment DPM exhaust emissions were modeled as a series of point sources with a nine-foot release height (or 2.74 meters, the exhaust stack height of construction equipment) placed at 33 feet (10 meter) intervals throughout the construction site. This resulted in 313 individual point sources being used to represent mobile equipment DPM exhaust emissions in the construction area, with DPM emissions occurring throughout the project construction site. In addition, the following stack parameters were used: a vertical release, a stack diameter of 2.5 inches, an exhaust temperature of 918°F, and an exit velocity of 309 feet per second. Plume rise for each point source was calculated by AERMOD. Emissions from vehicle travel on- and off-site were also included with the point sources throughout the site. The locations of the point sources used for the modeling are identified in Figure 1.

For modeling fugitive PM_{2.5} emissions, an area source was used with a near-ground level release height of 7 feet (2 meters). Fugitive dust emissions at construction sites come from a variety of sources, including truck and equipment travel, grading activities, truck loading (with loaders) and unloading (rear or bottom dumping), loaders and excavators moving and transferring soil and other materials, etc. All of these activities result in fugitive dust emissions at various heights at the point(s) of generation. Once generated, the dust plume will tend to rise as it moves downwind across the site and exit the site at a higher elevation than when it was generated. For all these reasons, a 7-foot release height was used as the average release height across the construction site.

AERMOD Inputs and Meteorological Data

AERMOD modeling used a five-year meteorological data set (2013-2017) from the San José Airport prepared for use with the AERMOD model by the BAAQMD. Construction emissions were modeled as occurring daily between 7:00 a.m. to 4:00 p.m. when the majority of construction activity is expected to occur. Annual DPM and PM_{2.5} concentrations from construction activities during the 2023-2025 period were computed by the model. DPM and PM_{2.5} concentrations were computed at nearby sensitive receptor locations. Receptor heights of 5 feet (1.5 meters) and 15

¹⁹ Bay Area Air Quality Management District (BAAQMD), 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May.

feet (4.5 meters) were used to represent the breathing heights of residents on the first and second floors in nearby single- and multi-family residences.²⁰

Summary of Construction Community Risk Impacts

The increased cancer risk calculations applied the BAAQMD recommended age sensitivity factors as described in *Attachment 1*. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. Third trimester, infant, child, and adult exposures were assumed to occur at all residences during the entire construction period.

The maximum modeled annual PM_{2.5} concentration was calculated based on combined exhaust and fugitive concentrations. The maximum computed HI values was based on the ratio of the maximum DPM concentration modeled and the chronic inhalation reference exposure level of 5 µg/m³.

The maximum modeled annual DPM and PM_{2.5} concentrations were identified at nearby sensitive receptors to find the MEI. Results of this assessment indicated that the construction MEI was located on the first floor (5 feet above ground) of the nearest multi-family residence to the south of the project site opposite Albany Drive. The location of the MEI and nearby sensitive receptors are shown in Figure 1. Table 6 summarizes the community risks from construction at the location of the construction MEI. *Attachment 4* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

Community Risks from Project Operation – Stationary Equipment and Traffic

Stationary equipment that could emit substantial TACs (e.g., emergency generators) are not planned for this project. Operation of the project would have long-term emissions from mobile sources (i.e., traffic). Per BAAQMD recommended risks and methodology, a road with less than 10,000 total vehicles per day is considered a low-impact source of TACs.²¹ This project would generate 2,480 net daily trips²² dispersed on the roadway system with a majority of the trips being from light-duty vehicles (i.e., passenger automobiles), which is a fraction of 10,000 daily vehicles. Therefore, emissions from project traffic are considered negligible and not included within this analysis.

Summary of Project-Related Community Risks at the Offs-Site Project MEI

For this project, the sensitive receptor identified in Figure 1 as the construction MEI is also the project MEI. At this location, the MEI would be exposed to three years of construction and 27 years of project operation. The annual PM_{2.5} concentration and HI values are based on an annual maximum for the entirety of the project. As shown in Table 6, the unmitigated maximum cancer risks from construction activities at the MEI location would exceed the BAAQMD single-source

²⁰ Bay Area Air Quality Management District, 2012, Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

²¹ Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards*, Version 3.0. May. Web: <https://www.baaqmd.gov/~media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

²² Email correspondence with Patrick Kallas, Associate Project Manager, David J. Powers & Associates, Inc., October 20, 2021.

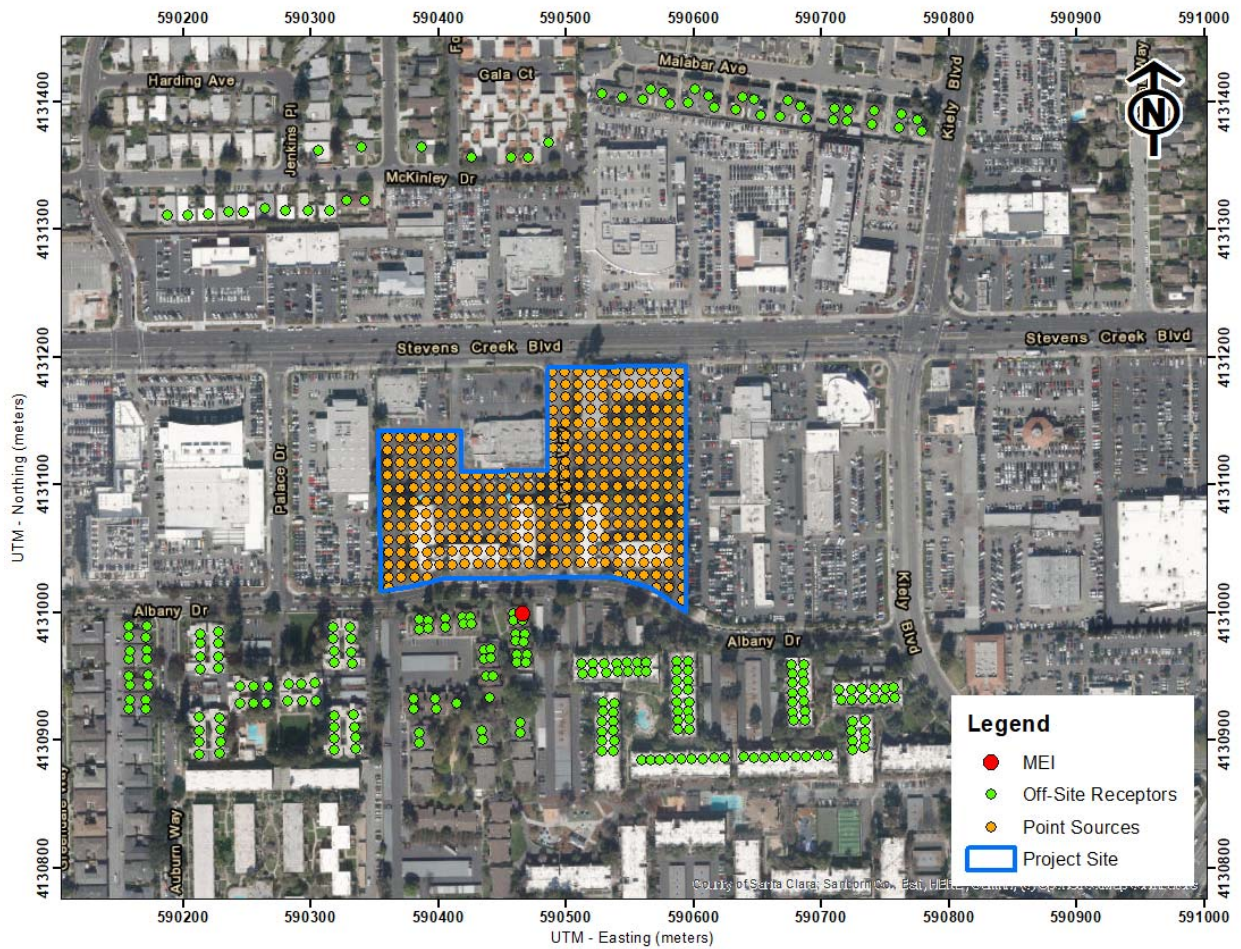
significance threshold. However, with the incorporation of the *Mitigation Measure AQ-1 and AQ-2*, the mitigated risk and hazard values would no longer exceed the BAAQMD single-source significance thresholds. The unmitigated PM_{2.5} concentration and HI at the MEI do not exceed their respective BAAQMD single-source significance thresholds.

Table 6. Construction and Operation Risk Impacts at the Off-Site Project MEIs

Source		Cancer Risk (per million)	Annual PM _{2.5} (µg/m ³)	Hazard Index
Project Construction	Unmitigated	18.03 (infant)	0.28	0.01
	Mitigated*	2.51 (infant)	0.11	<0.01
BAAQMD Single-Source Threshold		10	0.3	1.0
<i>Exceed Threshold?</i>	Unmitigated	Yes	<i>No</i>	<i>No</i>
	Mitigated*	<i>No</i>	<i>No</i>	<i>No</i>

* Construction equipment with Tier 4 engines and BMPs as Mitigation.

Figure 1. Locations of Project Construction Site, DPM Point Sources, and Maximum TAC Location (MEI)

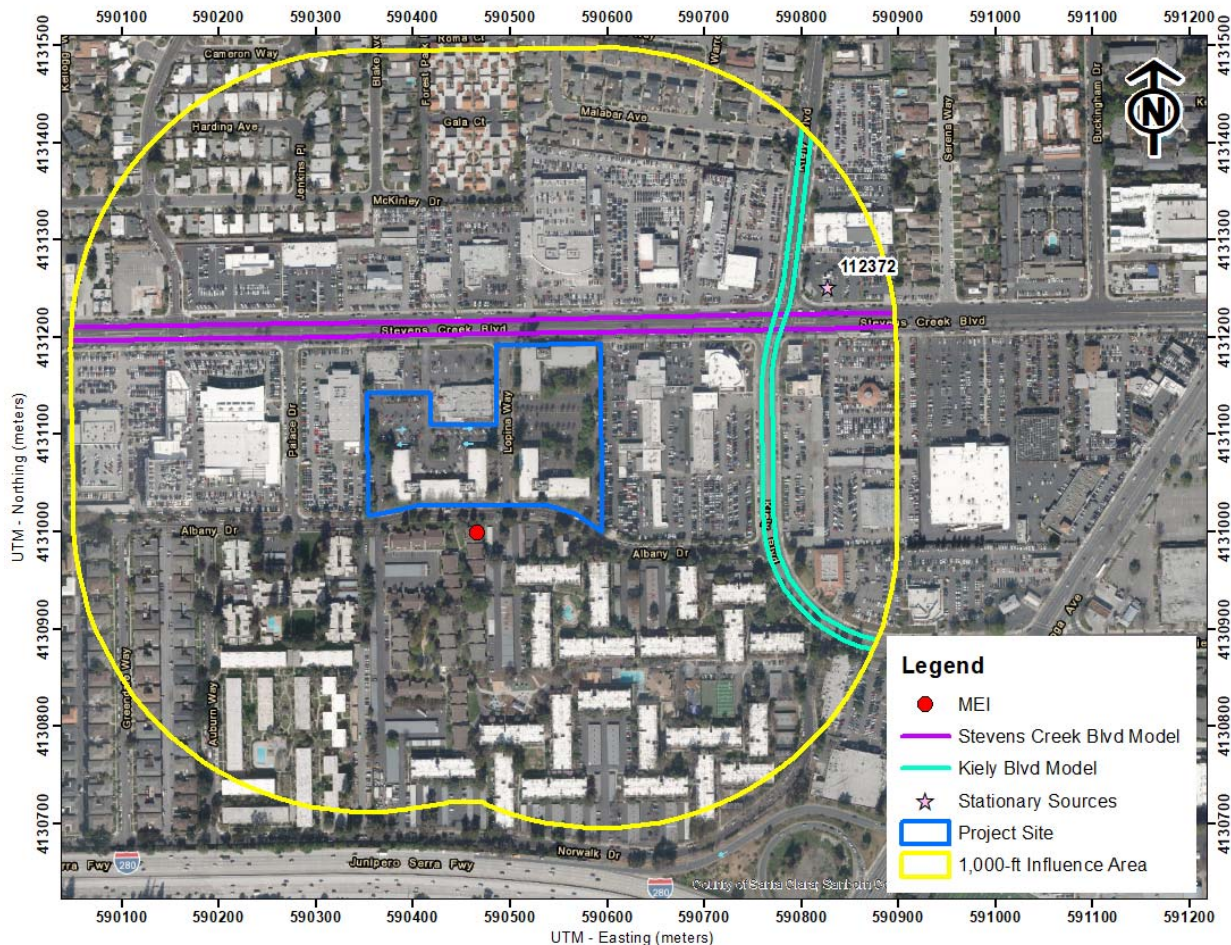


Cumulative Community Risks of all TAC Sources at the Off-Site Project Childcare MEI

Community health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors that are located within 1,000 feet of a project site (i.e., influence area). These sources include rail lines, freeways or highways, busy surface streets, and stationary sources identified by BAAQMD.

Based on a review of BAAQMD's stationary source map website and the traffic information provided by the traffic consultant, one existing stationary source of TACs and two roadways that would exceed 10,000 vehicles per day were found; Stevens Creek Boulevard and Kiely Boulevard. Other nearby streets are assumed to have less than 10,000 vehicles per day. Figure 2 shows the location of the existing TAC sources affecting the MEI. Community risk impacts from these sources upon the MEI are reported in Table 7. Details of the modeling and community risk calculations are included in *Attachment 5*.

Figure 2. Project Site and Nearby TAC and PM_{2.5} Sources



Local Roadways – Stevens Creek Boulevard and Kiely Boulevard

A refined analysis of potential health impacts from vehicle traffic on the Stevens Creek Boulevard and Kiely Boulevard was conducted. This involved predicting emissions for the traffic volume and mix of vehicle types on the roadways near the project site and using an atmospheric dispersion model to predict exposure to TACs. The associated cancer risks were then computed based on the modeled exposures. *Attachment 1* includes a description of how community risk impacts, including cancer risk are computed.

Traffic Emissions Modeling

This analysis involved the development of DPM, organic TACs, and PM_{2.5} emissions for traffic on Stevens Creek Boulevard and Kiely Boulevard using the Caltrans version of the CARB EMFAC2017 emissions model, known as CT-EMFAC2017. CT-EMFAC2017 provides emission factors for mobile source criteria pollutants and TACs, including DPM. Emission processes modeled include running exhaust for DPM, PM_{2.5} and total organic compounds (TOG), running evaporative losses for TOG, and tire and brake wear and fugitive road dust for PM_{2.5}. PM_{2.5} emissions from all vehicles were used, rather than just the PM_{2.5} fraction from diesel powered vehicles, because all vehicle types (i.e., gasoline and diesel powered) produce PM_{2.5}. Additionally, PM_{2.5} emissions from vehicle tire and brake wear and from re-entrained roadway dust were included in the emissions estimate. DPM emissions are projected to decrease in the future as reflected in the CT-EMFAC2017 emissions data. Inputs to the model include region (Santa Clara County), type of road (major/collector), truck percentage for non-state highways in Santa Clara County (3.51 percent),²³ traffic mix assigned by CT-EMFAC2017 for the county, year of analysis (2023 – construction start year), and season (annual).

To estimate TAC and PM_{2.5} emissions over the 30-year exposure period used for calculating the increased cancer risks for sensitive receptors at the MEI and project site, the CT-EMFAC2017 model was used to develop vehicle emission factors for the year 2023 (construction start year). Emissions associated with vehicle travel depend on the year of analysis because emission control technology requirements are phased-in over time. Therefore, the earlier the year analyzed in the model, the higher the emission rates utilized by CT-EMFAC2017. Year 2023 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated since overall vehicle emissions, and in particular diesel truck emissions, will decrease in the future.

The ADT on the roadways were based on AM and PM peak-hour background plus project traffic volumes for the nearby roadways provided by the project's traffic consultant.²⁴ Assuming a 1 percent per year increase, the predicted ADT on Stevens Creek Boulevard would be 25,568 vehicles and the predicted ADT on Kiely Boulevard would be 14,794 vehicles. Average hourly

²³ Bay Area Air Quality Management District, 2012, *Recommended Methods for Screening and Modeling Local Risks and Hazards, Version 3.0*. May. Web: <https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/risk-modeling-approach-may-2012.pdf?la=en>

²⁴ Email correspondence with Patrick Kallas, Associate Project Manager, David J. Powers & Associates, Inc., December 2, 2021., Attachment: *4300 Stevens Creek Volume Spreadsheet for DJP 2021-12-01_rev.xlsx*.

traffic distributions for Santa Clara County roadways were developed using the EMFAC model,²⁵ which were then applied to the ADT volumes to obtain estimated hourly traffic volumes and emissions for the roadway. For all hours of the day, other than during peak a.m. and p.m. periods, an average speed of 40 mph on Stevens Creek Boulevard and 30 mph on Kiely Boulevard was assumed for all vehicles based on posted speed limit signs on the roadways. Traffic speeds during the peak a.m. and p.m. periods were assumed to be 5 miles per hour slower (i.e., 35 mph / 25 mph) to account for commute congestion and the amount of access in the area.

Dispersion Modeling

Dispersion modeling of TAC and PM_{2.5} emissions was conducted using the U.S. EPA AERMOD dispersion model, which is recommended by the BAAQMD for this type of analysis.²⁶ TAC and PM_{2.5} emissions from traffic on Stevens Creek Boulevard and Kiely Boulevard within about 1,000 feet of the project site was evaluated with the model. Emissions from vehicle traffic were modeled in AERMOD using a series of area sources along a line (line area sources), with line segments used to represent the travel lanes on the roadways. The same meteorological data and off-site sensitive receptors used in the construction dispersion modeling were used in the roadway modeling. Other inputs to the model included road geometry, hourly traffic emissions, and receptor locations and heights. Annual TAC and PM_{2.5} concentrations at the project MEI for 2023 from traffic on the roadway were calculated using receptor heights of 5 feet (1.5 meters) to represent the breathing heights on the first floor of the nearby residence.

Computed Cancer and Non-Cancer Health Impacts

The cancer risk, PM_{2.5} concentration, and HI impacts from Stevens Creek Boulevard and Kiely Boulevard on the project MEI are shown in Table 7. Figure 2 shows the roadway links used for the modeling, MEI, and other receptor locations where concentrations were calculated. Details of the emission calculations, dispersion modeling, and cancer risk calculations for the receptors with the maximum cancer risk from the roadways' traffic are provided in *Attachment 5*.

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2018* GIS website,²⁷ which identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for new OEHHA guidance. One source was identified using this tool, a gas dispensing facility. A stationary source information request was not required as the BAAQMD GIS website provided screening risks and hazards for this source.

The screening level risks and hazards provided by BAAQMD for the stationary source were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Gas Dispensing*

²⁵ The Burden output from EMFAC2007, a previous version of CARB's EMFAC model, was used for this since the current web-based version of EMFAC2014 does not include Burden type output with hour-by-hour traffic volume information.

²⁶ BAAQMD. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May 2012

²⁷ BAAQMD, <https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=2387ae674013413f987b1071715daa65>

Facilities. Community risk impacts from the stationary sources upon the MEI are reported in Table 7.

Summary of Cumulative Risks at the Project MEI

Table 7 reports both the project and cumulative community risk impacts at the sensitive receptors most affected by project construction and operation (i.e., the project MEI). Without mitigation, the project’s community risk from project construction activities would exceed the maximum increased cancer risk single-source threshold. The annual PM_{2.5} concentration and hazard risk values, which include both the unmitigated and mitigated conditions, would not exceed their single-source thresholds. With the incorporation of *Mitigation Measure AQ-1 and AQ-2*, the mitigated cancer risk would no longer exceed its BAAQMD single-source significance threshold. In addition, the combined unmitigated cancer risk, PM_{2.5} concentration, and HI values would not exceed their respective cumulative thresholds.

Table 7. Cumulative Community Risk Impacts at the Project MEI

Source		Cancer Risk (per million)	Annual PM _{2.5} (µg/m ³)	Hazard Index
Project Impacts				
Total/Maximum Project Impact	Unmitigated	18.03 (infant)	0.28	0.01
	Mitigated	2.51 (infant)	0.11	<0.01
BAAQMD Single-Source Threshold		10	0.3	1.0
<i>Exceed Threshold?</i>	Unmitigated	<i>Yes</i>	<i>No</i>	<i>No</i>
	Mitigated	<i>No</i>	<i>No</i>	<i>No</i>
Cumulative Impacts				
Stevens Creek Blvd, ADT 25,568		0.50	0.05	<0.01
Kiely Blvd, ADT 14,794		0.07	<0.01	<0.01
Stevens Creek Union (Facility ID # 112372, Gas Station), MEI at +1,000 feet		0.28	--	<0.01
<i>Combined Sources</i>	Unmitigated	18.88	<0.34	<0.04
	Mitigated	3.36	<0.17	<0.04
BAAQMD Cumulative Source Threshold		100	0.8	10.0
<i>Exceed Threshold?</i>	Unmitigated	<i>No</i>	<i>No</i>	<i>No</i>
	Mitigated	<i>No</i>	<i>No</i>	<i>No</i>

Mitigation: Implement Mitigation Measures AQ-1 and AQ-2

Effectiveness of Mitigation Measure AQ-1 and AQ-2

CalEEMod was used to compute emissions associated with the implementation of Mitigation Measures AQ-1 and AQ-2, assuming that all equipment met U.S. EPA Tier 4 interim engines standards and BAAQMD BMPs for construction were included. With these implemented, the project’s construction cancer risk levels (assuming infant exposure) would be reduced by 86 percent to 2.51 chances per million. A plan that reduces DPM emissions by 50 percent would reduce cancer risk to about 9.02 chances per million, below the BAAQMD single-source significance threshold.

Non-CEQA: On-Site Community Risk Assessment for TAC Sources - New Project Residences

The City's General Plan Policy MS-11.1 requires new residential development projects and projects categorized as sensitive receptors to incorporate effective mitigation into project designs to avoid significant risks to health and safety required when new residential are proposed near existing sources of TACs. BAAQMD's recommended thresholds for health risks and hazards, shown in Table 1, are used to evaluate on-site exposure for new residents. A health risk assessment was completed to determine the impacts existing TAC sources would have on the new proposed sensitive receptors (residents) that that project would introduce. The same TAC sources identified above were used in this health risk assessment.²⁸

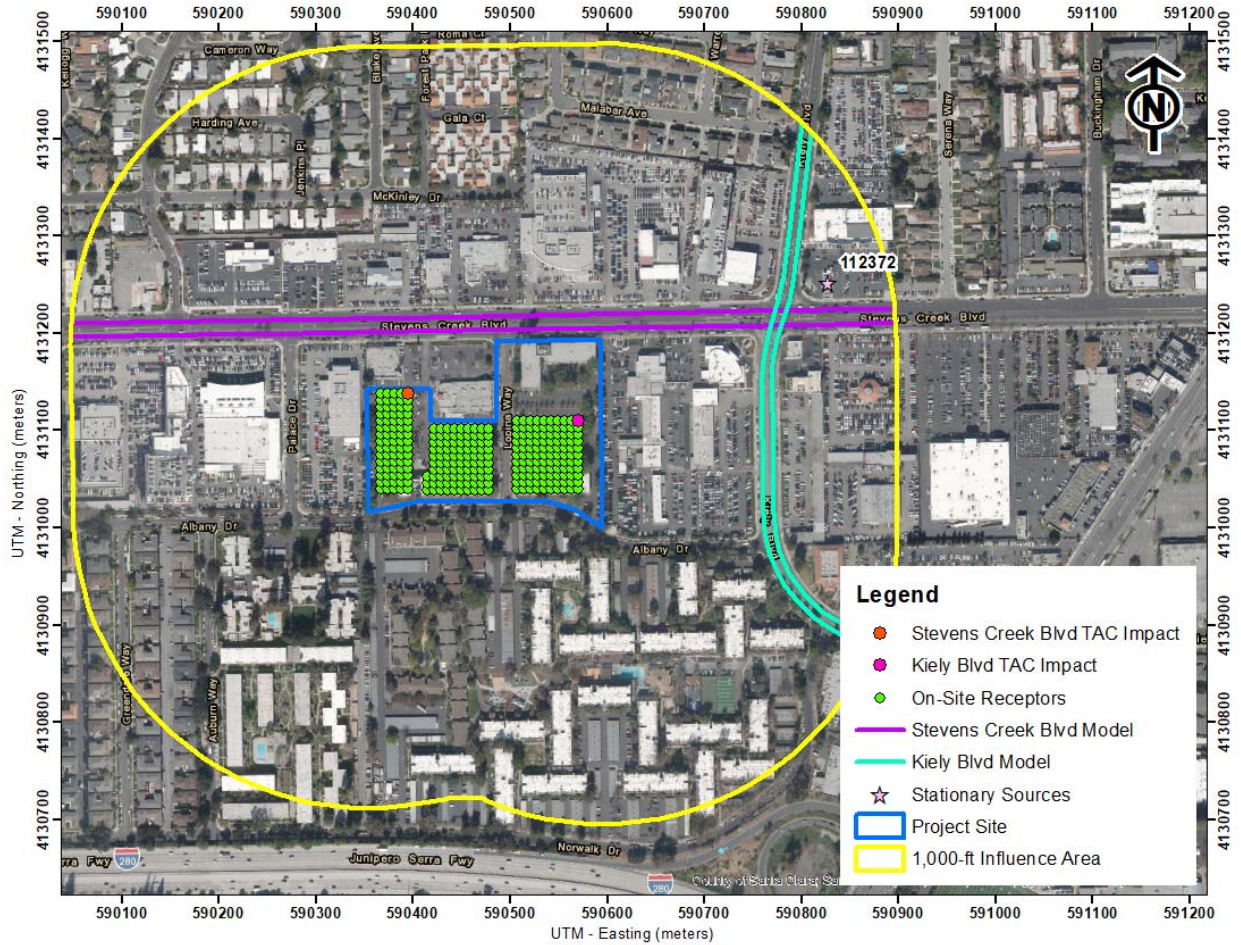
Local Roadways – Stevens Creek Boulevard and Kiely Boulevard

The roadway analysis for the project residents was conducted in the same manner as described above for the off-site MEI. However, year 2026 (operational year) emission factors were conservatively assumed as being representative of future conditions, instead of 2023 (construction start year). An analysis based on 2026 resulted in an increase of ADT on Stevens Creek Boulevard and Kiely Boulevard to 26,306 and 15,221 vehicles, respectively. On-site receptors were placed throughout the project area and were spaced every 23 feet (7 meters). Residences would be located on the second floor and higher of Building A and the third floor and higher of Buildings B and C. Roadway impacts were modeled at receptor heights of 13 feet (4 meters), 25 feet (7.6 meters), and 36 feet (11 meters) representing sensitive receptors on the second and third floors of Buildings A and the third and fourth floors of Buildings B and C (first and second residential levels of each building). Project sensitive receptors higher than the third/fourth floors would have roadway impacts less than those on the third/fourth floors. The portions of Stevens Creek Boulevard and Kiely Boulevard included in the modeling are shown in Figure 4 along with the on-site receptor locations where impacts were modeled.

Maximum increased cancer risks were calculated for the residents at the project site using the maximum modeled TAC concentrations. A 30-year exposure period was used in calculating cancer risks assuming the residents would include third trimester pregnancy and infants/children and were assumed to be in the new buildings for 24 hours per day for 350 days per year. The highest impacts from Stevens Creek Boulevard occurred at the second-floor receptor of the unit in the northeast corner of Building A, closest to the roadway. The highest impacts from Kiely Boulevard occurred at the third-floor receptor of the unit in the northeast corner of Building C, closest to the roadway. Cancer risks associated with the roadways are greatest closest to the respective roadways and decrease with distance from the roads. The roadways' community risk impacts at the project site are shown in Table 8. Details of the emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 5*.

²⁸ We note that to the extent this analysis considers *existing* air quality issues in relation to the impact on *future residents* of the Project, it does so for informational purposes only pursuant to the judicial decisions in *CBIA v. BAAQMD* (2015) 62 Cal.4th 369, 386 and *Ballona Wetlands Land Trust v. City of Los Angeles* (2011) 201 Cal.App.4th 455, 473, which confirm that the impacts of the existing environment on a project are excluded from CEQA.

Figure 4. Project Site, On-Site Residential Receptors, Roadway Segments Evaluated, and Locations of Maximum Roadway TAC Impacts



Stationary Sources

The stationary source screening analysis for the new project sensitive receptors was conducted in the same manner as described above for the project MEI. Table 8 shows the health risk assessment results from the stationary sources.

Cumulative Community Health Risk at Project Site

Community risk impacts from the combined sources upon the project site are reported in Table 8. The TAC sources are compared against the BAAQMD single-source threshold and then combined and compared against the BAAQMD cumulative-source threshold. As shown, the maximum cancer risk, annual PM_{2.5} concentrations, and HI from the nearby TAC sources do not exceed their single-source or cumulative-source thresholds.

Table 8. Impacts from Combined Sources to Project Site Receptors

Source	Cancer Risk (per million)	Annual PM _{2.5} (µg/m ³)	Hazard Index
Stevens Creek Blvd, ADT 26,306	1.38	0.15	<0.01
Kiely Blvd, ADT 15,221	0.23	0.02	<0.01
Stevens Creek Union (Facility ID # 112372, Gas Station), Project Site at 700 feet	0.50	--	<0.01
BAAQMD Single-Source Threshold	10	0.3	1.0
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>
Cumulative Total	2.11	0.17	<0.03
BAAQMD Cumulative Source Threshold	100	0.8	10.0
<i>Exceed Threshold?</i>	<i>No</i>	<i>No</i>	<i>No</i>

Supporting Documentation

Attachment 1 is the methodology used to compute community risk impacts, including the methods to compute increased cancer risk from exposure to project emissions.

Attachment 2 includes the CalEEMod output for project construction and operational criteria air pollutant. The operational outputs for existing uses are also included in this attachment as are any modeling assumptions.

Attachment 3 includes the EMFAC2021 emissions modeling. The input files for these calculations are voluminous and are available upon request in digital format.

Attachment 4 is the health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction and operation. The AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 5 includes the cumulative community risk calculations, modeling results, and health risk calculations from sources affecting the construction/project MEI and new on-site sensitive receptors.

Attachment 1: Health Risk Calculation Methodology

Health Risk Calculation Methodology

A health risk assessment (HRA) for exposure to Toxic Air Contaminates (TACs) requires the application of a risk characterization model to the results from the air dispersion model to estimate potential health risk at each sensitive receptor location. The State of California Office of Environmental Health Hazard Assessment (OEHHA) and California Air Resources Board (CARB) develop recommended methods for conducting health risk assessments. The most recent OEHHA risk assessment guidelines were published in February of 2015.²⁹ These guidelines incorporate substantial changes designed to provide for enhanced protection of children, as required by State law, compared to previous published risk assessment guidelines. CARB has provided additional guidance on implementing OEHHA's recommended methods.³⁰ This HRA used the 2015 OEHHA risk assessment guidelines and CARB guidance. The BAAQMD has adopted recommended procedures for applying the newest OEHHA guidelines as part of Regulation 2, Rule 5: New Source Review of Toxic Air Contaminants.³¹ Exposure parameters from the OEHHA guidelines and the recent BAAQMD HRA Guidelines were used in this evaluation.

Cancer Risk

Potential increased cancer risk from inhalation of TACs is calculated based on the TAC concentration over the period of exposure, inhalation dose, the TAC cancer potency factor, and an age sensitivity factor to reflect the greater sensitivity of infants and children to cancer causing TACs. The inhalation dose depends on a person's breathing rate, exposure time and frequency and duration of exposure. These parameters vary depending on the age, or age range, of the persons being exposed and whether the exposure is considered to occur at a residential location or other sensitive receptor location.

The current OEHHA guidance recommends that cancer risk be calculated by age groups to account for different breathing rates and sensitivity to TACs. Specifically, they recommend evaluating risks for the third trimester of pregnancy to age zero, ages zero to less than two (infant exposure), ages two to less than 16 (child exposure), and ages 16 to 70 (adult exposure). Age sensitivity factors (ASFs) associated with the different types of exposure are an ASF of 10 for the third trimester and infant exposures, an ASF of 3 for a child exposure, and an ASF of 1 for an adult exposure. Also associated with each exposure type are different breathing rates, expressed as liters per kilogram of body weight per day (L/kg-day) or liters per kilogram of body weight per 8-hour period for the case of worker or school child exposures. As recommended by the BAAQMD for residential exposures, 95th percentile breathing rates are used for the third trimester and infant exposures, and 80th percentile breathing rates for child and adult exposures. For children at schools and daycare facilities, BAAQMD recommends using the 95th percentile 8-hour breathing rates.

²⁹ OEHHA, 2015. *Air Toxics Hot Spots Program Risk Assessment Guidelines, The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments*. Office of Environmental Health Hazard Assessment. February.

³⁰ CARB, 2015. *Risk Management Guidance for Stationary Sources of Air Toxics*. July 23.

³¹ BAAQMD, 2016. *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*. December 2016.

Additionally, CARB and the BAAQMD recommend the use of a residential exposure duration of 30 years for sources with long-term emissions (e.g., roadways). For workers, assumed to be adults, a 25-year exposure period is recommended by the BAAQMD. For school children a 9-year exposure period is recommended by the BAAQMD.

Under previous OEHHA and BAAQMD HRA guidance, residential receptors are assumed to be at their home 24 hours a day, or 100 percent of the time. In the 2015 Risk Assessment Guidance, OEHHA includes adjustments to exposure duration to account for the fraction of time at home (FAH), which can be less than 100 percent of the time, based on updated population and activity statistics. The FAH factors are age-specific and are: 0.85 for third trimester of pregnancy to less than 2 years old, 0.72 for ages 2 to less than 16 years, and 0.73 for ages 16 to 70 years. Use of the FAH factors is allowed by the BAAQMD if there are no schools in the project vicinity have a cancer risk of one in a million or greater assuming 100 percent exposure (FAH = 1.0).

Functionally, cancer risk is calculated using the following parameters and formulas:

$$\text{Cancer Risk (per million)} = CPF \times \text{Inhalation Dose} \times ASF \times ED/AT \times FAH \times 10^6$$

Where:

CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

$$\text{Inhalation Dose} = C_{\text{air}} \times DBR^* \times A \times (EF/365) \times 10^{-6}$$

Where:

C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

8HrBR = 8-hour breathing rate (L/kg body weight-8 hours)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

* An 8-hour breathing rate (8HrBR) is used for worker and school child exposures.

The health risk parameters used in this evaluation are summarized as follows:

Parameter	Exposure Type →	Infant		Child	Adult
	Age Range →	3 rd Trimester	0<2	2 < 16	16 - 30
DPM Cancer Potency Factor (mg/kg-day) ⁻¹		1.10E+00	1.10E+00	1.10E+00	1.10E+00
Daily Breathing Rate (L/kg-day) 80 th Percentile Rate		273	758	572	261
Daily Breathing Rate (L/kg-day) 95 th Percentile Rate		361	1,090	745	335
8-hour Breathing Rate (L/kg-8 hours) 95 th Percentile Rate		-	1,200	520	240
Inhalation Absorption Factor		1	1	1	1
Averaging Time (years)		70	70	70	70
Exposure Duration (years)		0.25	2	14	14*
Exposure Frequency (days/year)		350	350	350	350*
Age Sensitivity Factor		10	10	3	1
Fraction of Time at Home (FAH)		0.85-1.0	0.85-1.0	0.72-1.0	0.73*

* For worker exposures (adult) the exposure duration and frequency are 25 years 250 days/year and FAH is not applicable.

Non-Cancer Hazards

Non-cancer health risk is usually determined by comparing the predicted level of exposure to a chemical to the level of exposure that is not expected to cause any adverse effects (reference exposure level), even to the most susceptible people. Potential non-cancer health hazards from TAC exposure are expressed in terms of a hazard index (HI), which is the ratio of the TAC concentration to a reference exposure level (REL). OEHHA has defined acceptable concentration levels for contaminants that pose non-cancer health hazards. TAC concentrations below the REL are not expected to cause adverse health impacts, even for sensitive individuals. The total HI is calculated as the sum of the HIs for each TAC evaluated and the total HI is compared to the BAAQMD significance thresholds to determine whether a significant non-cancer health impact from a project would occur.

Typically, for residential projects located near roadways with substantial TAC emissions, the primary TAC of concern with non-cancer health effects is diesel particulate matter (DPM). For DPM, the chronic inhalation REL is 5 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

Annual PM_{2.5} Concentrations

While not a TAC, fine particulate matter (PM_{2.5}) has been identified by the BAAQMD as a pollutant with potential non-cancer health effects that should be included when evaluating potential community health impacts under the California Environmental Quality Act (CEQA). The thresholds of significance for PM_{2.5} (project level and cumulative) are in terms of an increase in the annual average concentration. When considering PM_{2.5} impacts, the contribution from all sources of PM_{2.5} emissions should be included. For projects with potential impacts from nearby local roadways, the PM_{2.5} impacts should include those from vehicle exhaust emissions, PM_{2.5} generated from vehicle tire and brake wear, and fugitive emissions from re-suspended dust on the roads.

Attachment 2: CalEEMod Input Assumptions and Outputs

Air Quality/Noise Construction Information Data Request

Project Name: 4300 Stevens Creek Blvd	Complete ALL Portions in Yellow																																	
See Equipment Type TAB for type, horsepower and load factor																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Project Size</td> <td style="width: 40%;">580 Dwelling Units</td> <td style="width: 40%;">9.22 total project acres disturbed</td> </tr> <tr> <td></td> <td>591849 s.f. residential</td> <td></td> </tr> <tr> <td></td> <td>8,259 s.f. retail</td> <td></td> </tr> <tr> <td></td> <td>s.f. office/commercial</td> <td></td> </tr> <tr> <td></td> <td>250 room,</td> <td></td> </tr> <tr> <td></td> <td>152903-sf other, specify: Hotel</td> <td></td> </tr> <tr> <td></td> <td>332270 s.f. parking garage</td> <td>725 spaces</td> </tr> <tr> <td></td> <td>s.f. parking lot</td> <td>spaces</td> </tr> <tr> <td>Construction Hours</td> <td>am to</td> <td>pm</td> </tr> </table>	Project Size	580 Dwelling Units	9.22 total project acres disturbed		591849 s.f. residential			8,259 s.f. retail			s.f. office/commercial			250 room,			152903-sf other, specify: Hotel			332270 s.f. parking garage	725 spaces		s.f. parking lot	spaces	Construction Hours	am to	pm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Pile Driving? Y/N?</td> </tr> <tr> <td>Project include on-site GENERATOR OR FIRE PUMP during project OPERATION? Y/N? __N__</td> </tr> <tr> <td>IF YES (if BOTH separate values) --></td> </tr> <tr> <td>Kilowatts/Horsepower: _____</td> </tr> <tr> <td>Fuel Type: _____</td> </tr> <tr> <td>Location in project (Plans Desired if Available):</td> </tr> </table>	Pile Driving? Y/N?	Project include on-site GENERATOR OR FIRE PUMP during project OPERATION? Y/N? __N__	IF YES (if BOTH separate values) -->	Kilowatts/Horsepower: _____	Fuel Type: _____	Location in project (Plans Desired if Available):
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Kilowatts/Horsepower: _____																																		
Fuel Type: _____																																		
Location in project (Plans Desired if Available):																																		

DO NOT MULTIPLY EQUIPMENT HOURS/DAY BY THE QUANTITY OF EQUIPMENT

Quantity	Description	HP	Load Factor	Hours/day	Total Work Days	Avg. Hours per day	HP Annual Hours	Comments
Overall Import/Export Volumes								
	Demolition	Start Date:	1/3/2023	Total phase:	30			
		End Date:	2/10/2023					
1	Concrete/Industrial Saws	81	0.73	8	30	8	14191	Demolition Volume
3	Excavators	158	0.38	8	30	8	43229	
2	Rubber-Tired Dozers	247	0.4	8	30	8	47424	Square footage of buildings to be demolished (or total tons to be hauled)
	Tractors/Loaders/Backhoes	97	0.37			0	0	77080 square feet or
	Other Equipment?							2 Hauling volume (tons)
								Any pavement demolished and hauled? <u>2</u> tons
	Site Preparation	Start Date:	2/11/2023	Total phase:	20			
		End Date:	3/10/2023					
	Graders	187	0.41			0	0	
3	Rubber Tired Dozers	247	0.4	8	20	8	47424	
4	Tractors/Loaders/Backhoes	97	0.37	8	20	8	22970	
	Other Equipment?							
	Grading / Excavation	Start Date:	3/11/2023	Total phase:	45			
		End Date:	5/12/2023					
2	Excavators	158	0.38	8	45	8	43229	Soil Hauling Volume
1	Graders	187	0.41	8	45	8	27601	
1	Rubber Tired Dozers	247	0.4	8	45	8	35568	Export volume = <u>8250</u> cubic yards?
2	Scrapers	367	0.48	8	45	8	126835	Import volume = <u>0</u> cubic yards?
2	Tractors/Loaders/Backhoes	97	0.37	8	45	8	25841	
	Other Equipment?							
	Trenching/Foundation	Start Date:	3/11/2023	Total phase:	45			
		End Date:	5/12/2023					
1	Tractor/Loader/Backhoe	97	0.37	8	45	8	12920	
1	Excavators	158	0.38	8	45	8	21614	
	Other Equipment?							
	Building - Exterior	Start Date:	5/13/2023	Total phase:	500			
		End Date:	4/11/2025					
1	Cranes	231	0.29	7	500	7	234465	Cement Trucks? <u>2</u> Total Round-Trips
3	Forklifts	89	0.2	8	500	8	213600	
1	Generator Sets	84	0.74	8	500	8	248640	Electric? (Y/N) _____ Otherwise assumed diesel
3	Tractors/Loaders/Backhoes	97	0.37	7	500	7	376845	Liquid Propane (LPG)? (Y/N) _____ Otherwise Assumed diesel
1	Welders	46	0.45	8	500	8	82800	Or temporary line power? (Y/N)
	Other Equipment?							
	Building - Interior/Architectural Coating	Start Date:	4/12/2025	Total phase:	35			
		End Date:	5/30/2025					
1	Air Compressors	78	0.48	6	35	6	7862	
	Aerial Lift	62	0.31			0	0	
	Other Equipment?							
	Paving	Start Date:	5/31/2025	Total phase:	35			
		Start Date:	7/18/2025					
	Cement and Mortar Mixers	9	0.56			0	0	Asphalt? ___ cubic yards or ___ round trips?
2	Pavers	130	0.42	8	35	8	30576	
2	Paving Equipment	132	0.36	8	35	8	26611	
2	Rollers	80	0.38	8	35	8	17024	
	Tractors/Loaders/Backhoes	97	0.37			0	0	
	Other Equipment?							
	Additional Phases	Start Date:		Total phase:				
		Start Date:						
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	
						#DIV/0!	0	

Equipment types listed in "Equipment Types" worksheet tab.

Equipment listed in this sheet is to provide an example of inputs
 It is assumed that water trucks would be used during grading
 Add or subtract phases and equipment, as appropriate
 Modify horsepower or load factor, as appropriate

Complete one sheet for each project component

Traffic Consultant Trip Gen						CalEEMod Default		
Land Use		Size	Daily Trips	New Trips	Weekday Trip Gen	Weekday	Sat	Sun
Apartmentns Mid Rise	DU	580	2633	2006	3.46	5.44	4.91	4.09
<i>Res/Retail Internal Capture Reduction</i>	3%		-14			Rev	3.12	2.60
<i>Location-Based Vehicle Mode Share Reduction</i>	13%		-340					
<i>Project-Specific Trip Reduction</i>	12%		-273					
Hotel	Rooms	250	1270	1105	4.42	8.36	8.19	5.95
<i>Location-Based Vehicle Mode Share Reduction</i>	13%		-165			Rev	4.33	3.15
Retail	Ksf	8.259	450	322	38.99	44.32	42.04	20.43
<i>Res/Retail Internal Capture Reduction</i>	3%		-14			Rev	36.98	17.97
<i>Location-Based Vehicle Mode Share Reduction</i>	13%		-57					
<i>Pass-by Reduction</i>	15%		-57					
Existing Land Use								
Office	Ksf	136.8	941	941	6.88	9.74	2.21	0.7
						Rev	1.56	0.49

Land Use	Size	Daily			AM Peak Hour						PM Peak Hour					
		Trip Rate	Trips	Trip Rate	Splits		Trips			Trip Rate	Splits		Trips			
					In	Out	In	Out	Total		In	Out	In	Out	Total	
Proposed Land Uses																
Apartment¹	580 du	4.54	2,633	0.37	23%	77%	49	166	215	0.39	61%	39%	138	88	226	
<i>Residential/Retail Internal Capture (3%)⁴</i>			-14				-1	0	-1				-2	0	-2	
<i>Location-Based Vehicle Mode Share (13%)⁵</i>			-340				-6	-22	-28				-18	-11	-29	
<i>Project-Specific Trip Reduction (12%)⁶</i>			-273				-5	-17	-22				-14	-9	-23	
<i>Sub-Total Residential</i>			2,006				37	127	164				104	68	172	
Hotel²	250 rooms	5.08	1,270	0.51	52%	48%	67	61	128	0.41	56%	44%	58	45	103	
<i>Location-Based Vehicle Mode Share (13%)⁵</i>			-165				-9	-8	-17				-8	-5	-13	
<i>Sub-Total Hotel</i>			1,105				58	53	111				50	40	90	
Retail³	8,259 s.f.	54.45	450	2.36	60%	40%	11	8	19	6.59	50%	50%	27	27	54	
<i>Residential/Retail Internal Capture (3%)⁴</i>			-14				0	-1	-1				0	-2	-2	
<i>Location-Based Vehicle Mode Share (13%)⁵</i>			-57				-1	-1	-2				-4	-3	-7	
<i>Pass-By Reduction (15% Daily/0% AM/30% PM)⁷</i>			-57				0	0	0				-7	-7	-14	
<i>Sub-Total Retail</i>			322				10	6	16				16	15	31	
Total Gross Project Trips			3,421				105	185	290				170	121	291	
Existing Land Uses																
Office ⁸	136,800 s.f.	6.88	-941	0.60	93%	7%	-76	-6	-82	1.28	27%	73%	-48	-127	-175	
Net Project Trips			2,480				29	179	208				122	-6	116	

Notes:

All trip rates are from ITE Trip Generation Manual, 11th Edition, 2021.

1. Mid-Rise Multifamily Housing (ITE Land Use 221): average trip rates in trips per dwelling unit were used.

2. Business Hotel (ITE Land Use 312): average trip rates in trips per occupied room were used.

3. Strip Retail Plaza (Land Use 822): average trip rates were used.

4. Residential/retail internal trip reductions were applied to the project per the 2014 Santa Clara VTA TIA Guidelines.

5. A 13% reduction for the residential and hotel/retail uses were applied to the project based on the location-based vehicle mode share percentage outputs (Table 6 of TA Handbook) produced from the San Jose Travel Demand Model for the Urban Low-Transit area.

6. A reduction was applied because the proposed residential use will be required to reduce VMT through implementing physical design strategies and/or TDM measures. The VMT mitigation measures would reduce the project VMT from 11.22 per capita (area VMT) to 9.92 per capita by 12% based on the City's VMT Evaluation Tool.

7. An average 30% pass-by trip reduction was applied to the retail PM peak-hour trips based the maximum allowable pass-by trip reduction rate in the VTA Transportation Impact Analysis Guidelines, October 2014. Hexagon assumes no pass-by trip reduction during the AM peak hour for retail uses.

8. AM and PM peak-hour trip generation rates for the existing uses are based on existing driveway counts conducted on 9/22/2016. Daily trip generate rate was estimated based on the average ratio of ITE daily to AM and PM peak-hour trip rates for office use (ITE Land Use 710).

Construction Criteria Air Pollutants - Unmitigated						
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	CO2e	
Year	Tons				MT	
Construction Equipment						
2023	0.27	2.63	0.12	0.11	417.63	
2024	0.19	1.76	0.08	0.08	305.52	
2025	5.14	0.63	0.03	0.03	124.94	
EMFAC						
2023	0.20	0.71	0.05	0.02	774.19	
2024	0.19	0.67	0.05	0.02	764.52	
2025	0.10	0.35	0.03	0.01	407.52	
Total Construction Emissions by Year						
2023	0.47	3.34	0.17	0.13	1191.83	
2024	0.38	2.43	0.13	0.10	1070.04	
2025	5.24	0.97	0.06	0.04	532.45	
Total Construction Emissions						
Tons	6.10	6.74	0.37	0.27	2794.32	
Average Daily Emissions						
Pounds/Workdays	Average Daily Emissions				Workdays	
2023	3.64	25.68	1.34	1.03		260
2024	2.91	18.58	1.02	0.74		262
2025	73.82	13.69	0.80	0.52		142
Threshold - lbs/day	54.0	54.0	82.0	54.0		
Total Construction Emissions						
Pounds	80.38	57.95	3.17	2.30	0.00	
Average	18.36	20.31	1.10	0.81	0.00	664.00
Threshold - lbs/day	54.0	54.0	82.0	54.0		

Operational Criteria Air Pollutants						
Unmitigated	ROG	NOX	Total PM10	Total PM2.5		
Year	Tons					
Total	5.42	1.26	2.41	0.63		
Existing Use Emissions						
Total	1.04	0.39	0.59	0.16		
Net Annual Operational Emissions						
Tons/year	4.37	0.87	1.82	0.48		
Threshold - Tons/year	10.0	10.0	15.0	10.0		
Average Daily Emissions						
Pounds Per Day	23.96	4.76	9.98	2.61		
Threshold - lbs/day	54.0	54.0	82.0	54.0		

Category	CO2e			
	Project	Existing	Project 2030	Existing
Area	30.53	0.00		
Energy	0.00	1016.01		
Mobile	2354.05	570.82		
Waste	207.37	63.98		
Water	148.43	100.60		
TOTAL	2740.38	1751.41	0.00	0.00
Net GHG Emissions		988.97		0.00
Service Population	1821			
Per Capita Emissions		1.50		0.00
CA DOF 2020 =	580 units 3.14 pphh			

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**4300 Stevens Creek Blvd, San Jose - Unmitigated Construction, Mitigated Operation
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	725.00	Space	0.00	332,270.00	0
Hotel	250.00	Room	0.00	152,903.00	0
Apartments Mid Rise	580.00	Dwelling Unit	9.22	591,849.00	1659
Strip Mall	8.26	1000sqft	0.00	8,259.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2026
Utility Company	San Jose Clean Energy				
CO2 Intensity (lb/MW hr)	807.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Site Plan/Traffic based land uses
- Construction Phase - Defaults confirmed by applicant
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Defaults confirmed by applicant
- Off-road Equipment - Defaults confirmed by applicant
- Off-road Equipment -
- Off-road Equipment -

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Off-road Equipment - Trenching added

Trips and VMT - 0 trips EMFAC2021 adjustment, estimated 250,000-sf asphalt demo, estimated 200,000-sf concrete for building, estimated 55,000-sf asphalt for paving

Demolition - existing building demo = 77,060-sf (applicant provided)

Grading - grading = 8,250-cy export

Vehicle Trips - Trip gen w/ reductions, retail pass-by adjusted since already included in trip gen reductions

Vehicle Emission Factors - EMFAC2021 Vehicle Emission Factors Santa Clara Co 2026

Woodstoves - No Wood No Gas

Energy Use - Reach Code - no Natural gas all electric

Water And Wastewater - WWTP 100% aerobic, no septic tanks or lagoons

Construction Off-road Equipment Mitigation - BMPs, Tier 4 interim mitigation

Fleet Mix - EMFAC2021 Fleet Mix Santa Clara Co 2026

Energy Mitigation - SJCE/GHGRS 100% carbon-free electricity by 2021

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	230.00	500.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	3,054.10	3,055.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	70.89	72.42
tblEnergyUse	T24E	1.83	1.84
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	39.16	0.00
tblEnergyUse	T24NG	2.34	0.00

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tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	87.00	185.60
tblFireplaces	NumberWood	98.60	0.00
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02

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tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblGrading	MaterialExported	0.00	8,250.00
tblLandUse	LandUseSquareFeet	290,000.00	332,270.00
tblLandUse	LandUseSquareFeet	363,000.00	152,903.00

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tblLandUse	LandUseSquareFeet	580,000.00	591,849.00
tblLandUse	LandUseSquareFeet	8,260.00	8,259.00
tblLandUse	LotAcreage	6.52	0.00
tblLandUse	LotAcreage	8.33	0.00
tblLandUse	LotAcreage	15.26	9.22
tblLandUse	LotAcreage	0.19	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	HaulingTripNumber	351.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,031.00	0.00
tblTripsAndVMT	VendorTripNumber	143.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	624.00	0.00
tblTripsAndVMT	WorkerTripNumber	125.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleEF	HHD	0.02	0.22
tblVehicleEF	HHD	0.05	0.11
tblVehicleEF	HHD	6.31	5.15
tblVehicleEF	HHD	0.41	0.73
tblVehicleEF	HHD	5.9100e-003	7.3800e-004
tblVehicleEF	HHD	1,010.86	795.67
tblVehicleEF	HHD	1,358.12	1,554.97
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.22	0.25
tblVehicleEF	HHD	5.0000e-006	8.0000e-006

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tblVehicleEF	HHD	5.31	4.01
tblVehicleEF	HHD	2.65	1.70
tblVehicleEF	HHD	2.32	2.76
tblVehicleEF	HHD	2.4220e-003	2.0130e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.3170e-003	1.9190e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8910e-003	8.7830e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005
tblVehicleEF	HHD	0.43	0.32
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.4050e-003	6.9240e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005
tblVehicleEF	HHD	0.49	0.58
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.08	0.13
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	3.0000e-006	0.00

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tblVehicleEF	LDA	1.3660e-003	1.6750e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.47	0.57
tblVehicleEF	LDA	1.93	2.55
tblVehicleEF	LDA	220.20	235.10
tblVehicleEF	LDA	46.75	60.77
tblVehicleEF	LDA	3.5660e-003	3.6780e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.21
tblVehicleEF	LDA	0.04	7.1220e-003
tblVehicleEF	LDA	1.1800e-003	1.0710e-003
tblVehicleEF	LDA	1.5670e-003	1.7910e-003
tblVehicleEF	LDA	0.02	2.4930e-003
tblVehicleEF	LDA	1.0860e-003	9.8600e-004
tblVehicleEF	LDA	1.4410e-003	1.6470e-003
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.9090e-003	6.2070e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	2.1780e-003	2.3240e-003
tblVehicleEF	LDA	4.6300e-004	6.0100e-004
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	7.1350e-003	9.0460e-003
tblVehicleEF	LDA	0.03	0.19

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tblVehicleEF	LDA	0.18	0.28
tblVehicleEF	LDT1	2.7310e-003	5.0100e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.71	1.21
tblVehicleEF	LDT1	2.08	4.52
tblVehicleEF	LDT1	264.87	316.42
tblVehicleEF	LDT1	56.84	82.70
tblVehicleEF	LDT1	4.8810e-003	7.9710e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.19	0.34
tblVehicleEF	LDT1	0.04	9.2110e-003
tblVehicleEF	LDT1	1.4310e-003	1.7060e-003
tblVehicleEF	LDT1	1.8820e-003	2.6150e-003
tblVehicleEF	LDT1	0.02	3.2240e-003
tblVehicleEF	LDT1	1.3170e-003	1.5700e-003
tblVehicleEF	LDT1	1.7300e-003	2.4040e-003
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.22	0.46
tblVehicleEF	LDT1	2.6210e-003	3.1280e-003
tblVehicleEF	LDT1	5.6300e-004	8.1800e-004
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.02	0.03

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tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.24	0.50
tblVehicleEF	LDT2	2.4210e-003	2.4020e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.65	0.74
tblVehicleEF	LDT2	2.52	3.24
tblVehicleEF	LDT2	280.92	326.78
tblVehicleEF	LDT2	60.84	83.29
tblVehicleEF	LDT2	4.9510e-003	5.3470e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.21	0.29
tblVehicleEF	LDT2	0.04	8.8560e-003
tblVehicleEF	LDT2	1.2560e-003	1.2430e-003
tblVehicleEF	LDT2	1.6140e-003	2.0020e-003
tblVehicleEF	LDT2	0.02	3.1000e-003
tblVehicleEF	LDT2	1.1560e-003	1.1440e-003
tblVehicleEF	LDT2	1.4840e-003	1.8410e-003
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	9.5280e-003	9.2320e-003
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.24	0.33
tblVehicleEF	LDT2	2.7790e-003	3.2300e-003
tblVehicleEF	LDT2	6.0200e-004	8.2300e-004
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00

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tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.27	0.36
tblVehicleEF	LHD1	4.6670e-003	5.0240e-003
tblVehicleEF	LHD1	6.7660e-003	6.5110e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.61	0.77
tblVehicleEF	LHD1	0.99	2.16
tblVehicleEF	LHD1	8.66	8.48
tblVehicleEF	LHD1	749.59	747.67
tblVehicleEF	LHD1	11.02	17.34
tblVehicleEF	LHD1	7.4200e-004	6.3000e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.50	0.52
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	8.7200e-004	6.8700e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8310e-003	9.4180e-003
tblVehicleEF	LHD1	8.5970e-003	0.01
tblVehicleEF	LHD1	2.3200e-004	1.9000e-004
tblVehicleEF	LHD1	8.3400e-004	6.5700e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4580e-003	2.3550e-003
tblVehicleEF	LHD1	8.1790e-003	0.01
tblVehicleEF	LHD1	2.1300e-004	1.7400e-004
tblVehicleEF	LHD1	1.7170e-003	0.12

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tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.4000e-005	8.3000e-005
tblVehicleEF	LHD1	7.3150e-003	7.3000e-003
tblVehicleEF	LHD1	1.0900e-004	1.7100e-004
tblVehicleEF	LHD1	1.7170e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD2	2.8270e-003	2.9010e-003
tblVehicleEF	LHD2	6.0420e-003	5.9100e-003
tblVehicleEF	LHD2	6.5340e-003	0.01
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.54	0.49
tblVehicleEF	LHD2	0.55	1.18
tblVehicleEF	LHD2	13.60	13.61
tblVehicleEF	LHD2	727.00	794.48
tblVehicleEF	LHD2	7.15	9.38
tblVehicleEF	LHD2	1.7170e-003	1.6800e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	0.09

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tblVehicleEF	LHD2	0.60	0.73
tblVehicleEF	LHD2	0.15	0.22
tblVehicleEF	LHD2	1.4660e-003	1.4060e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.1700e-004	8.1000e-005
tblVehicleEF	LHD2	1.4020e-003	1.3460e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7000e-003	2.6660e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0800e-004	7.5000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	7.0160e-003	7.6510e-003
tblVehicleEF	LHD2	7.1000e-005	9.3000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.32	0.15

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tblVehicleEF	MCY	0.25	0.17
tblVehicleEF	MCY	18.17	11.99
tblVehicleEF	MCY	9.11	7.93
tblVehicleEF	MCY	209.94	186.84
tblVehicleEF	MCY	60.17	46.31
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.3810e-003
tblVehicleEF	MCY	1.14	0.55
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0610e-003	1.9450e-003
tblVehicleEF	MCY	2.9290e-003	3.4700e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9240e-003	1.8180e-003
tblVehicleEF	MCY	2.7480e-003	3.2560e-003
tblVehicleEF	MCY	0.90	3.85
tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.16	0.99
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	1.91	1.27
tblVehicleEF	MCY	2.0780e-003	1.8470e-003
tblVehicleEF	MCY	5.9500e-004	4.5800e-004
tblVehicleEF	MCY	0.90	0.09
tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.70	1.20
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	2.08	1.38

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tblVehicleEF	MDV	2.6580e-003	2.9620e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.67	0.81
tblVehicleEF	MDV	2.67	3.40
tblVehicleEF	MDV	339.08	392.60
tblVehicleEF	MDV	72.17	99.29
tblVehicleEF	MDV	6.5120e-003	6.9830e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.35
tblVehicleEF	MDV	0.04	8.9510e-003
tblVehicleEF	MDV	1.3050e-003	1.2470e-003
tblVehicleEF	MDV	1.6620e-003	1.9840e-003
tblVehicleEF	MDV	0.02	3.1330e-003
tblVehicleEF	MDV	1.2040e-003	1.1490e-003
tblVehicleEF	MDV	1.5280e-003	1.8240e-003
tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.24
tblVehicleEF	MDV	0.28	0.41
tblVehicleEF	MDV	3.3510e-003	3.8790e-003
tblVehicleEF	MDV	7.1400e-004	9.8200e-004
tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.24

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tblVehicleEF	MDV	0.31	0.45
tblVehicleEF	MH	7.6660e-003	9.9190e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.68	0.93
tblVehicleEF	MH	1.87	2.26
tblVehicleEF	MH	1,445.75	1,674.32
tblVehicleEF	MH	17.15	21.62
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.21	1.44
tblVehicleEF	MH	0.24	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.4000e-004	2.8100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2870e-003	3.3150e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.2100e-004	2.5800e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36
tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7000e-004	2.1400e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36

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tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MHD	3.6600e-003	0.01
tblVehicleEF	MHD	1.3680e-003	9.5250e-003
tblVehicleEF	MHD	8.6830e-003	7.9190e-003
tblVehicleEF	MHD	0.40	0.66
tblVehicleEF	MHD	0.19	0.26
tblVehicleEF	MHD	0.97	0.93
tblVehicleEF	MHD	69.63	156.70
tblVehicleEF	MHD	1,051.19	1,196.53
tblVehicleEF	MHD	8.85	7.91
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	7.3550e-003	5.6890e-003
tblVehicleEF	MHD	0.38	0.84
tblVehicleEF	MHD	1.45	0.91
tblVehicleEF	MHD	1.70	1.39
tblVehicleEF	MHD	2.7700e-004	1.4450e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.0640e-003	9.6350e-003
tblVehicleEF	MHD	1.1200e-004	9.6000e-005
tblVehicleEF	MHD	2.6500e-004	1.3820e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.7520e-003	9.2100e-003
tblVehicleEF	MHD	1.0300e-004	8.9000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003

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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	6.6100e-004	1.4520e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.8000e-005	7.8000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	OBUS	7.0720e-003	7.5520e-003
tblVehicleEF	OBUS	2.9940e-003	9.8650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	0.53
tblVehicleEF	OBUS	0.35	0.40
tblVehicleEF	OBUS	1.73	1.78
tblVehicleEF	OBUS	95.34	88.16
tblVehicleEF	OBUS	1,283.24	1,344.05
tblVehicleEF	OBUS	14.49	14.24
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.16
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.40	0.36
tblVehicleEF	OBUS	1.45	0.93

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tblVehicleEF	OBUS	1.11	0.99
tblVehicleEF	OBUS	1.3100e-004	3.9000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5500e-003	0.01
tblVehicleEF	OBUS	1.4900e-004	1.2900e-004
tblVehicleEF	OBUS	1.2600e-004	3.7300e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2100e-003	0.01
tblVehicleEF	OBUS	1.3700e-004	1.1800e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	9.0500e-004	8.3300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.4300e-004	1.4100e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	SBUS	0.06	0.08
tblVehicleEF	SBUS	5.4710e-003	0.09
tblVehicleEF	SBUS	5.3640e-003	4.9930e-003

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tblVehicleEF	SBUS	2.48	1.73
tblVehicleEF	SBUS	0.45	0.84
tblVehicleEF	SBUS	0.76	0.68
tblVehicleEF	SBUS	344.98	188.59
tblVehicleEF	SBUS	1,025.26	1,007.35
tblVehicleEF	SBUS	4.41	3.84
tblVehicleEF	SBUS	0.05	0.02
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	5.3260e-003	4.5020e-003
tblVehicleEF	SBUS	3.24	1.31
tblVehicleEF	SBUS	4.17	2.24
tblVehicleEF	SBUS	0.95	0.50
tblVehicleEF	SBUS	3.0570e-003	1.1130e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.4000e-005	4.2000e-005
tblVehicleEF	SBUS	2.9250e-003	1.0640e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7030e-003	2.6360e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.0000e-005	3.9000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003
tblVehicleEF	SBUS	0.27	0.19
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03

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tblVehicleEF	SBUS	3.2860e-003	1.7120e-003
tblVehicleEF	SBUS	9.7970e-003	9.3590e-003
tblVehicleEF	SBUS	4.4000e-005	3.8000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003
tblVehicleEF	SBUS	0.39	0.31
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.09	0.15
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	UBUS	1.74	0.53
tblVehicleEF	UBUS	1.7570e-003	3.7120e-003
tblVehicleEF	UBUS	13.20	6.31
tblVehicleEF	UBUS	0.14	0.50
tblVehicleEF	UBUS	1,654.13	1,064.85
tblVehicleEF	UBUS	1.40	3.15
tblVehicleEF	UBUS	0.28	0.16
tblVehicleEF	UBUS	1.1340e-003	6.0350e-003
tblVehicleEF	UBUS	0.71	0.29
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.07	0.13
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	5.1700e-003	5.5470e-003
tblVehicleEF	UBUS	1.5000e-005	1.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	8.3320e-003	0.01
tblVehicleEF	UBUS	4.9450e-003	5.3030e-003
tblVehicleEF	UBUS	1.4000e-005	1.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01

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tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	7.3620e-003	0.01
tblVehicleEF	UBUS	0.01	8.5860e-003
tblVehicleEF	UBUS	1.4000e-005	3.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01
tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	1.78	0.60
tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	8.0600e-003	0.01
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	60.00
tblVehicleTrips	ST_TR	4.91	3.12
tblVehicleTrips	ST_TR	8.19	4.33
tblVehicleTrips	ST_TR	42.04	36.98
tblVehicleTrips	SU_TR	4.09	2.60
tblVehicleTrips	SU_TR	5.95	3.15
tblVehicleTrips	SU_TR	20.43	17.97
tblVehicleTrips	WD_TR	5.44	3.46
tblVehicleTrips	WD_TR	8.36	4.42
tblVehicleTrips	WD_TR	44.32	38.99
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

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tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2728	2.6303	2.5719	4.7700e-003	0.4420	0.1208	0.5629	0.1891	0.1125	0.3016	0.0000	414.7456	414.7456	0.1156	0.0000	417.6348
2024	0.1928	1.7611	2.1179	3.5300e-003	0.0000	0.0803	0.0803	0.0000	0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
2025	5.1448	0.6254	0.8739	1.4400e-003	0.0000	0.0275	0.0275	0.0000	0.0258	0.0258	0.0000	124.1525	124.1525	0.0315	0.0000	124.9393
Maximum	5.1448	2.6303	2.5719	4.7700e-003	0.4420	0.1208	0.5629	0.1891	0.1125	0.3016	0.0000	414.7456	414.7456	0.1156	0.0000	417.6348

Mitigated Construction

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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
Year	tons/yr										MT/yr					
2023	0.0855	1.7405	3.0414	4.7700e-003	0.1989	0.0111	0.2100	0.0851	0.0111	0.0962	0.0000	414.7451	414.7451	0.1156	0.0000	417.6343
2024	0.0699	1.4295	2.3415	3.5300e-003	0.0000	0.0111	0.0111	0.0000	0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
2025	5.1022	0.5925	0.9871	1.4400e-003	0.0000	3.81E-03	3.8100e-003	0.0000	3.8100e-003	3.8100e-003	0.0000	124.1523	124.1523	0.0315	0.0000	124.9392
Maximum	5.1022	1.7405	3.0414	4.7700e-003	0.1989	0.0111	0.2100	0.0851	0.0111	0.0962	0.0000	414.7451	414.7451	0.1156	0.0000	417.6343

	ROG	NOx	CO	SO2	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	6.29	25.00	-14.49	0.00	55.00	88.63	66.46	55.00	87.84	72.43	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.9654	0.5195
2	4-2-2023	7-1-2023	0.8891	0.5565
3	7-2-2023	10-1-2023	0.5243	0.3761
4	10-2-2023	1-1-2024	0.5240	0.3761
5	1-2-2024	4-1-2024	0.4847	0.3720
6	4-2-2024	7-1-2024	0.4847	0.3720
7	7-2-2024	10-1-2024	0.4901	0.3761
8	10-2-2024	1-1-2025	0.4897	0.3761
9	1-2-2025	4-1-2025	0.4448	0.3679
10	4-2-2025	7-1-2025	5.2569	5.2549
11	7-2-2025	9-30-2025	0.0577	0.0630
		Highest	5.2569	5.2549

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Mobile	1.8138	1.1861	11.0569	0.0251	2.3679	0.0171	2.3850	0.5905	0.0160	0.6065	0.0000	2,318.0338	2,318.0338	0.1285	0.1101	2,354.05
Waste						0.0000	0.0000		0.0000	0.0000	83.7033	0.0000	83.7033	4.9467	0.0000	207.3714
Water						0.0000	0.0000		0.0000	0.0000	15.8301	120.6736	136.5037	0.0594	0.0350	148.4258
Total	5.4161	1.2557	15.3769	0.0255	2.3679	0.0426	2.4106	0.5905	0.0415	0.6320	99.5334	2,468.9299	2,568.4633	5.1419	0.1455	2,740.3796

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	43.89	42.92	1.51	6.16	41.40

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	1/2/2023	2/10/2023	5	30	
2	Site Preparation	Site Preparation	2/11/2023	3/10/2023	5	20	
3	Grading	Grading	3/11/2023	5/12/2023	5	45	
4	Trenching	Trenching	3/11/2023	5/12/2023	5	45	
5	Building Construction	Building Construction	5/13/2023	4/11/2025	5	500	
6	Architectural Coating	Architectural Coating	4/12/2025	5/30/2025	5	35	
7	Paving	Paving	5/31/2025	7/18/2025	5	35	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 135

Acres of Paving: 0

Residential Indoor: 1,198,494; Residential Outdoor: 399,498; Non-Residential Indoor: 241,743; Non-Residential Outdoor: 80,581; Striped Parking Area:

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

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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	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

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0379	0.0000	0.0379	5.7400e-003	0.0000	5.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0340	0.3223	0.2947	5.8000e-004		0.0150	0.0150		0.0139	0.0139	0.0000	50.9881	50.9881	0.0143	0.0000	51.3451
Total	0.0340	0.3223	0.2947	5.8000e-004	0.0379	0.0150	0.0529	5.7400e-003	0.0139	0.0197	0.0000	50.9881	50.9881	0.0143	0.0000	51.3451

Unmitigated Construction Off-Site

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

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

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					0.0171	0.0000	0.0171	2.5800e-003	0.0000	2.5800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7600e-003	0.2034	0.3701	5.8000e-004		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	50.9880	50.9880	0.0143	0.0000	51.3450
Total	8.7600e-003	0.2034	0.3701	5.8000e-004	0.0171	9.2000e-004	0.0180	2.5800e-003	9.2000e-004	3.5000e-003	0.0000	50.9880	50.9880	0.0143	0.0000	51.3450

Mitigated Construction Off-Site

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

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1966	0.0127	0.2092	0.1010	0.0117	0.1127	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212

Unmitigated Construction Off-Site

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

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

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					0.0885	0.0000	0.0885	0.0455	0.0000	0.0455	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9700e-003	0.1216	0.2296	3.8000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211
Total	6.9700e-003	0.1216	0.2296	3.8000e-004	0.0885	6.2000e-004	0.0891	0.0455	6.2000e-004	0.0461	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211

Mitigated Construction Off-Site

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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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2076	0.0000	0.2076	0.0823	0.0000	0.0823	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0747	0.7766	0.6312	1.4000e-003		0.0321	0.0321		0.0295	0.0295	0.0000	122.7042	122.7042	0.0397	0.0000	123.6964
Total	0.0747	0.7766	0.6312	1.4000e-003	0.2076	0.0321	0.2396	0.0823	0.0295	0.1118	0.0000	122.7042	122.7042	0.0397	0.0000	123.6964

Unmitigated Construction Off-Site

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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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					0.0934	0.0000	0.0934	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.4336	0.8263	1.4000e-003		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	122.7041	122.7041	0.0397	0.0000	123.6962
Total	0.0228	0.4336	0.8263	1.4000e-003	0.0934	2.2800e-003	0.0957	0.0370	2.2800e-003	0.0393	0.0000	122.7041	122.7041	0.0397	0.0000	123.6962

Mitigated Construction Off-Site

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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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.5 Trenching - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.6500e-003	0.0694	0.1235	1.9000e-004		3.4100e-003	3.4100e-003		3.1400e-003	3.1400e-003	0.0000	16.3637	16.3637	5.2900e-003	0.0000	16.4960
Total	7.6500e-003	0.0694	0.1235	1.9000e-004		3.4100e-003	3.4100e-003		3.1400e-003	3.1400e-003	0.0000	16.3637	16.3637	5.2900e-003	0.0000	16.4960

Unmitigated Construction Off-Site

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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					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	3.0000e-003	0.0817	0.1409	1.9000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.3636	16.3636	5.2900e-003	0.0000	16.4960
Total	3.0000e-003	0.0817	0.1409	1.9000e-004		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	16.3636	16.3636	5.2900e-003	0.0000	16.4960

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

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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1298	1.1868	1.3401	2.2200e-003		0.0577	0.0577		0.0543	0.0543	0.0000	191.2389	191.2389	0.0455	0.0000	192.3762
Total	0.1298	1.1868	1.3401	2.2200e-003		0.0577	0.0577		0.0543	0.0543	0.0000	191.2389	191.2389	0.0455	0.0000	192.3762

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					

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

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	5.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
Total	5.0769	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743

Mitigated Construction Off-Site

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

3.8 Paving - 2025

Unmitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.8138	1.1861	11.0569	0.0251	2.3679	0.0171	2.3850	0.5905	0.0160	0.6065	0.0000	2,318.0338	2,318.0338	0.1285	0.1101	2,354.0526
Unmitigated	1.8138	1.1861	11.0569	0.0251	2.3679	0.0171	2.3850	0.5905	0.0160	0.6065	0.0000	2,318.0338	2,318.0338	0.1285	0.1101	2,354.0526

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,006.80	1,809.60	1508.00	4,405,279	4,405,279
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	1,105.00	1,082.50	787.50	2,007,141	2,007,141
Strip Mall	322.06	305.45	148.43	575,932	575,932
Total	3,433.86	3,197.55	2,443.93	6,988,352	6,988,352

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	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	60	40	0

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510
Enclosed Parking with Elevator	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510
Hotel	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510
Strip Mall	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,931.5346	1,931.5346	0.0789	9.5600e-003	1,936.3564
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.24394e+006	822.3891	0.0336	4.0700e-003	824.4421
Enclosed Parking with Elevator	1.80755e+006	662.4550	0.0271	3.2800e-003	664.1087
Hotel	1.13301e+006	415.2413	0.0170	2.0600e-003	416.2779
Strip Mall	85811	31.4492	1.2800e-003	1.6000e-004	31.5277
Total		1,931.5346	0.0789	9.5700e-003	1,936.3564

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000

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

Hotel	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6023	0.0697	4.3200	3.6000e-004		0.0255	0.0255		0.0255	0.0255	0.0000	30.2224	30.2224	7.2300e-003	4.2000e-004	30.5297
Unmitigated	3.6023	0.0697	4.3200	3.6000e-004		0.0255	0.0255		0.0255	0.0255	0.0000	30.2224	30.2224	7.2300e-003	4.2000e-004	30.5297

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					

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

Architectural Coating	0.5076					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.9624					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	2.3400e-003	0.0200	8.5100e-003	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.1702	23.1702	4.4000e-004	4.2000e-004	23.3079
Landscaping	0.1300	0.0496	4.3115	2.3000e-004		0.0239	0.0239		0.0239	0.0239	0.0000	7.0523	7.0523	6.7800e-003	0.0000	7.2218
Total	3.6023	0.0697	4.3200	3.6000e-004		0.0255	0.0255		0.0255	0.0255	0.0000	30.2224	30.2224	7.2200e-003	4.2000e-004	30.5297

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	0.5076						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.9624						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	2.3400e-003	0.0200	8.5100e-003	1.3000e-004		1.6200e-003	1.6200e-003		1.6200e-003	1.6200e-003	0.0000	23.1702	23.1702	4.4000e-004	4.2000e-004	23.3079
Landscaping	0.1300	0.0496	4.3115	2.3000e-004		0.0239	0.0239		0.0239	0.0239	0.0000	7.0523	7.0523	6.7800e-003	0.0000	7.2218
Total	3.6023	0.0697	4.3200	3.6000e-004		0.0255	0.0255		0.0255	0.0255	0.0000	30.2224	30.2224	7.2200e-003	4.2000e-004	30.5297

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	136.5037	0.0594	0.0350	148.4258
Unmitigated	136.5037	0.0594	0.0350	148.4258

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	37.7893 / 23.8237	118.8692	0.0503	0.0296	128.9474
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.34169 / 0.704632	15.7237	8.2700e-003	4.9500e-003	17.4045
Strip Mall	0.611839 / 0.374998	1.9108	8.1000e-004	4.8000e-004	2.0740
Total		136.5037	0.0594	0.0350	148.4258

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

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	37.7893 / 23.8237	118.8692	0.0503	0.0296	128.9474
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	6.34169 / 0.704632	15.7237	8.2700e-003	4.9500e-003	17.4045
Strip Mall	0.611839 / 0.374998	1.9108	8.1000e-004	4.8000e-004	2.0740
Total		136.5037	0.0594	0.0350	148.4258

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	83.7033	4.9467	0.0000	207.3714
Unmitigated	83.7033	4.9467	0.0000	207.3714

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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	266.8	54.1580	3.2007	0.0000	134.1741
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	136.88	27.7854	1.6421	0.0000	68.8372
Strip Mall	8.67	1.7599	0.1040	0.0000	4.3602
Total		83.7033	4.9467	0.0000	207.3715

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	266.8	54.1580	3.2007	0.0000	134.1741
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000

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

Hotel	136.88	27.7854	1.6421	0.0000	68.8372
Strip Mall	8.67	1.7599	0.1040	0.0000	4.3602
Total		83.7033	4.9467	0.0000	207.3715

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

**4300 Stevens Creek Blvd, San Jose - Mitigated Construction
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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	725.00	Space	0.00	332,270.00	0
Hotel	250.00	Room	0.00	152,903.00	0
Apartments Mid Rise	580.00	Dwelling Unit	9.22	591,849.00	1659
Strip Mall	8.26	1000sqft	0.00	8,259.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2026
Utility Company	San Jose Clean Energy				
CO2 Intensity (lb/MWhr)	807.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Site Plan/Traffic based land uses
- Construction Phase - Defaults confirmed by applicant
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Defaults confirmed by applicant
- Off-road Equipment - Defaults confirmed by applicant
- Off-road Equipment -
- Off-road Equipment -

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

Off-road Equipment - Trenching added

Trips and VMT - 0 trips EMFAC2021 adjustment, estimated 250,000-sf asphalt demo, estimated 200,000-sf concrete for building, estimated 55,000-sf asphalt for paving

Demolition - existing building demo = 77,060-sf (applicant provided)

Grading - grading = 8,250-cy export

Vehicle Trips - Trip gen w/ reductions, retail pass-by adjusted since already included in trip gen reductions

Vehicle Emission Factors - EMFAC2021 Vehicle Emission Factors Santa Clara Co 2026

Woodstoves - No Wood No Gas

Energy Use - Reach Code - no Natural gas all electric

Water And Wastewater - WWTP 100% aerobic, no septic tanks or lagoons

Construction Off-road Equipment Mitigation - BMPs, Tier 4 interim mitigation

Energy Mitigation - SJCE/GHGRS 100% carbon-free electricity by 2021

Fleet Mix - EMFAC2021 Fleet Mix Santa Clara Co 2026

Architectural Coating - At least 80% of paints have to be super-compliant VOC = effectively 20g/L interior and 30g/L exterior

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	20.00
tblArchitecturalCoating	EF_Parking	150.00	30.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	30.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	20.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	230.00	500.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	10.00	20.00
tblEnergyUse	NT24E	3,054.10	3,055.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	4.75	0.00

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tblEnergyUse	T24E	70.89	72.42
tblEnergyUse	T24E	1.83	1.84
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	39.16	0.00
tblEnergyUse	T24NG	2.34	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	87.00	185.60
tblFireplaces	NumberWood	98.60	0.00
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.2090e-003	5.8310e-003

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tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004

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tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblGrading	MaterialExported	0.00	8,250.00
tblLandUse	LandUseSquareFeet	290,000.00	332,270.00
tblLandUse	LandUseSquareFeet	363,000.00	152,903.00
tblLandUse	LandUseSquareFeet	580,000.00	591,849.00
tblLandUse	LandUseSquareFeet	8,260.00	8,259.00
tblLandUse	LotAcreage	6.52	0.00
tblLandUse	LotAcreage	8.33	0.00
tblLandUse	LotAcreage	15.26	9.22
tblLandUse	LotAcreage	0.19	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblTripsAndVMT	HaulingTripNumber	351.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,031.00	0.00
tblTripsAndVMT	VendorTripNumber	143.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblTripsAndVMT	WorkerTripNumber	20.00	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblTripsAndVMT	WorkerTripNumber	624.00	0.00
tblTripsAndVMT	WorkerTripNumber	125.00	0.00
tblTripsAndVMT	WorkerTripNumber	15.00	0.00
tblVehicleEF	HHD	0.02	0.22
tblVehicleEF	HHD	0.05	0.11
tblVehicleEF	HHD	6.31	5.15
tblVehicleEF	HHD	0.41	0.73
tblVehicleEF	HHD	5.9100e-003	7.3800e-004
tblVehicleEF	HHD	1,010.86	795.67

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tblVehicleEF	HHD	1,358.12	1,554.97
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.22	0.25
tblVehicleEF	HHD	5.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.31	4.01
tblVehicleEF	HHD	2.65	1.70
tblVehicleEF	HHD	2.32	2.76
tblVehicleEF	HHD	2.4220e-003	2.0130e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.3170e-003	1.9190e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8910e-003	8.7830e-003
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005
tblVehicleEF	HHD	0.43	0.32
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.4050e-003	6.9240e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005

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tblVehicleEF	HHD	0.49	0.58
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.08	0.13
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	LDA	1.3660e-003	1.6750e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.47	0.57
tblVehicleEF	LDA	1.93	2.55
tblVehicleEF	LDA	220.20	235.10
tblVehicleEF	LDA	46.75	60.77
tblVehicleEF	LDA	3.5660e-003	3.6780e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.21
tblVehicleEF	LDA	0.04	7.1220e-003
tblVehicleEF	LDA	1.1800e-003	1.0710e-003
tblVehicleEF	LDA	1.5670e-003	1.7910e-003
tblVehicleEF	LDA	0.02	2.4930e-003
tblVehicleEF	LDA	1.0860e-003	9.8600e-004
tblVehicleEF	LDA	1.4410e-003	1.6470e-003
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.9090e-003	6.2070e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	2.1780e-003	2.3240e-003
tblVehicleEF	LDA	4.6300e-004	6.0100e-004

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tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	7.1350e-003	9.0460e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.18	0.28
tblVehicleEF	LDT1	2.7310e-003	5.0100e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.71	1.21
tblVehicleEF	LDT1	2.08	4.52
tblVehicleEF	LDT1	264.87	316.42
tblVehicleEF	LDT1	56.84	82.70
tblVehicleEF	LDT1	4.8810e-003	7.9710e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.19	0.34
tblVehicleEF	LDT1	0.04	9.2110e-003
tblVehicleEF	LDT1	1.4310e-003	1.7060e-003
tblVehicleEF	LDT1	1.8820e-003	2.6150e-003
tblVehicleEF	LDT1	0.02	3.2240e-003
tblVehicleEF	LDT1	1.3170e-003	1.5700e-003
tblVehicleEF	LDT1	1.7300e-003	2.4040e-003
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.22	0.46
tblVehicleEF	LDT1	2.6210e-003	3.1280e-003

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tblVehicleEF	LDT1	5.6300e-004	8.1800e-004
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.24	0.50
tblVehicleEF	LDT2	2.4210e-003	2.4020e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.65	0.74
tblVehicleEF	LDT2	2.52	3.24
tblVehicleEF	LDT2	280.92	326.78
tblVehicleEF	LDT2	60.84	83.29
tblVehicleEF	LDT2	4.9510e-003	5.3470e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.21	0.29
tblVehicleEF	LDT2	0.04	8.8560e-003
tblVehicleEF	LDT2	1.2560e-003	1.2430e-003
tblVehicleEF	LDT2	1.6140e-003	2.0020e-003
tblVehicleEF	LDT2	0.02	3.1000e-003
tblVehicleEF	LDT2	1.1560e-003	1.1440e-003
tblVehicleEF	LDT2	1.4840e-003	1.8410e-003
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	9.5280e-003	9.2320e-003
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.24	0.33

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tblVehicleEF	LDT2	2.7790e-003	3.2300e-003
tblVehicleEF	LDT2	6.0200e-004	8.2300e-004
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.27	0.36
tblVehicleEF	LHD1	4.6670e-003	5.0240e-003
tblVehicleEF	LHD1	6.7660e-003	6.5110e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.61	0.77
tblVehicleEF	LHD1	0.99	2.16
tblVehicleEF	LHD1	8.66	8.48
tblVehicleEF	LHD1	749.59	747.67
tblVehicleEF	LHD1	11.02	17.34
tblVehicleEF	LHD1	7.4200e-004	6.3000e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.50	0.52
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	8.7200e-004	6.8700e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8310e-003	9.4180e-003
tblVehicleEF	LHD1	8.5970e-003	0.01
tblVehicleEF	LHD1	2.3200e-004	1.9000e-004
tblVehicleEF	LHD1	8.3400e-004	6.5700e-004

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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4580e-003	2.3550e-003
tblVehicleEF	LHD1	8.1790e-003	0.01
tblVehicleEF	LHD1	2.1300e-004	1.7400e-004
tblVehicleEF	LHD1	1.7170e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.4000e-005	8.3000e-005
tblVehicleEF	LHD1	7.3150e-003	7.3000e-003
tblVehicleEF	LHD1	1.0900e-004	1.7100e-004
tblVehicleEF	LHD1	1.7170e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD2	2.8270e-003	2.9010e-003
tblVehicleEF	LHD2	6.0420e-003	5.9100e-003
tblVehicleEF	LHD2	6.5340e-003	0.01
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.54	0.49
tblVehicleEF	LHD2	0.55	1.18
tblVehicleEF	LHD2	13.60	13.61
tblVehicleEF	LHD2	727.00	794.48

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tblVehicleEF	LHD2	7.15	9.38
tblVehicleEF	LHD2	1.7170e-003	1.6800e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.60	0.73
tblVehicleEF	LHD2	0.15	0.22
tblVehicleEF	LHD2	1.4660e-003	1.4060e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.1700e-004	8.1000e-005
tblVehicleEF	LHD2	1.4020e-003	1.3460e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7000e-003	2.6660e-003
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.0800e-004	7.5000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	7.0160e-003	7.6510e-003
tblVehicleEF	LHD2	7.1000e-005	9.3000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02

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tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.32	0.15
tblVehicleEF	MCY	0.25	0.17
tblVehicleEF	MCY	18.17	11.99
tblVehicleEF	MCY	9.11	7.93
tblVehicleEF	MCY	209.94	186.84
tblVehicleEF	MCY	60.17	46.31
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.3810e-003
tblVehicleEF	MCY	1.14	0.55
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0610e-003	1.9450e-003
tblVehicleEF	MCY	2.9290e-003	3.4700e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9240e-003	1.8180e-003
tblVehicleEF	MCY	2.7480e-003	3.2560e-003
tblVehicleEF	MCY	0.90	3.85
tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.16	0.99
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	1.91	1.27
tblVehicleEF	MCY	2.0780e-003	1.8470e-003
tblVehicleEF	MCY	5.9500e-004	4.5800e-004
tblVehicleEF	MCY	0.90	0.09

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tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.70	1.20
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	2.08	1.38
tblVehicleEF	MDV	2.6580e-003	2.9620e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.67	0.81
tblVehicleEF	MDV	2.67	3.40
tblVehicleEF	MDV	339.08	392.60
tblVehicleEF	MDV	72.17	99.29
tblVehicleEF	MDV	6.5120e-003	6.9830e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.35
tblVehicleEF	MDV	0.04	8.9510e-003
tblVehicleEF	MDV	1.3050e-003	1.2470e-003
tblVehicleEF	MDV	1.6620e-003	1.9840e-003
tblVehicleEF	MDV	0.02	3.1330e-003
tblVehicleEF	MDV	1.2040e-003	1.1490e-003
tblVehicleEF	MDV	1.5280e-003	1.8240e-003
tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.24
tblVehicleEF	MDV	0.28	0.41
tblVehicleEF	MDV	3.3510e-003	3.8790e-003
tblVehicleEF	MDV	7.1400e-004	9.8200e-004

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tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.24
tblVehicleEF	MDV	0.31	0.45
tblVehicleEF	MH	7.6660e-003	9.9190e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.68	0.93
tblVehicleEF	MH	1.87	2.26
tblVehicleEF	MH	1,445.75	1,674.32
tblVehicleEF	MH	17.15	21.62
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.21	1.44
tblVehicleEF	MH	0.24	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.4000e-004	2.8100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2870e-003	3.3150e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.2100e-004	2.5800e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36
tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.01	0.18

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tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7000e-004	2.1400e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36
tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MHD	3.6600e-003	0.01
tblVehicleEF	MHD	1.3680e-003	9.5250e-003
tblVehicleEF	MHD	8.6830e-003	7.9190e-003
tblVehicleEF	MHD	0.40	0.66
tblVehicleEF	MHD	0.19	0.26
tblVehicleEF	MHD	0.97	0.93
tblVehicleEF	MHD	69.63	156.70
tblVehicleEF	MHD	1,051.19	1,196.53
tblVehicleEF	MHD	8.85	7.91
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	7.3550e-003	5.6890e-003
tblVehicleEF	MHD	0.38	0.84
tblVehicleEF	MHD	1.45	0.91
tblVehicleEF	MHD	1.70	1.39
tblVehicleEF	MHD	2.7700e-004	1.4450e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.0640e-003	9.6350e-003
tblVehicleEF	MHD	1.1200e-004	9.6000e-005
tblVehicleEF	MHD	2.6500e-004	1.3820e-003

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tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.7520e-003	9.2100e-003
tblVehicleEF	MHD	1.0300e-004	8.9000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	6.6100e-004	1.4520e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.8000e-005	7.8000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	OBUS	7.0720e-003	7.5520e-003
tblVehicleEF	OBUS	2.9940e-003	9.8650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	0.53
tblVehicleEF	OBUS	0.35	0.40
tblVehicleEF	OBUS	1.73	1.78
tblVehicleEF	OBUS	95.34	88.16
tblVehicleEF	OBUS	1,283.24	1,344.05
tblVehicleEF	OBUS	14.49	14.24

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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.16
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.40	0.36
tblVehicleEF	OBUS	1.45	0.93
tblVehicleEF	OBUS	1.11	0.99
tblVehicleEF	OBUS	1.3100e-004	3.9000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5500e-003	0.01
tblVehicleEF	OBUS	1.4900e-004	1.2900e-004
tblVehicleEF	OBUS	1.2600e-004	3.7300e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2100e-003	0.01
tblVehicleEF	OBUS	1.3700e-004	1.1800e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	9.0500e-004	8.3300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.4300e-004	1.4100e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.03	0.06

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tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	SBUS	0.06	0.08
tblVehicleEF	SBUS	5.4710e-003	0.09
tblVehicleEF	SBUS	5.3640e-003	4.9930e-003
tblVehicleEF	SBUS	2.48	1.73
tblVehicleEF	SBUS	0.45	0.84
tblVehicleEF	SBUS	0.76	0.68
tblVehicleEF	SBUS	344.98	188.59
tblVehicleEF	SBUS	1,025.26	1,007.35
tblVehicleEF	SBUS	4.41	3.84
tblVehicleEF	SBUS	0.05	0.02
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	5.3260e-003	4.5020e-003
tblVehicleEF	SBUS	3.24	1.31
tblVehicleEF	SBUS	4.17	2.24
tblVehicleEF	SBUS	0.95	0.50
tblVehicleEF	SBUS	3.0570e-003	1.1130e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.4000e-005	4.2000e-005
tblVehicleEF	SBUS	2.9250e-003	1.0640e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7030e-003	2.6360e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.0000e-005	3.9000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003

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

tblVehicleEF	SBUS	0.27	0.19
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.2860e-003	1.7120e-003
tblVehicleEF	SBUS	9.7970e-003	9.3590e-003
tblVehicleEF	SBUS	4.4000e-005	3.8000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003
tblVehicleEF	SBUS	0.39	0.31
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.09	0.15
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	UBUS	1.74	0.53
tblVehicleEF	UBUS	1.7570e-003	3.7120e-003
tblVehicleEF	UBUS	13.20	6.31
tblVehicleEF	UBUS	0.14	0.50
tblVehicleEF	UBUS	1,654.13	1,064.85
tblVehicleEF	UBUS	1.40	3.15
tblVehicleEF	UBUS	0.28	0.16
tblVehicleEF	UBUS	1.1340e-003	6.0350e-003
tblVehicleEF	UBUS	0.71	0.29
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.07	0.13
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	5.1700e-003	5.5470e-003
tblVehicleEF	UBUS	1.5000e-005	1.2000e-005

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tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	8.3320e-003	0.01
tblVehicleEF	UBUS	4.9450e-003	5.3030e-003
tblVehicleEF	UBUS	1.4000e-005	1.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01
tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	7.3620e-003	0.01
tblVehicleEF	UBUS	0.01	8.5860e-003
tblVehicleEF	UBUS	1.4000e-005	3.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01
tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	1.78	0.60
tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	8.0600e-003	0.01
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	60.00
tblVehicleTrips	ST_TR	4.91	3.12
tblVehicleTrips	ST_TR	8.19	4.33
tblVehicleTrips	ST_TR	42.04	36.98
tblVehicleTrips	SU_TR	4.09	2.60
tblVehicleTrips	SU_TR	5.95	3.15
tblVehicleTrips	SU_TR	20.43	17.97
tblVehicleTrips	WD_TR	5.44	3.46
tblVehicleTrips	WD_TR	8.36	4.42
tblVehicleTrips	WD_TR	44.32	38.99

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tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.2728	2.6303	2.5719	4.7700e-003	0.4420	0.1208	0.5629	0.1891	0.1125	0.3016	0.0000	414.7456	414.7456	0.1156	0.0000	417.6348
2024	0.1928	1.7611	2.1179	3.5300e-003	0.0000	0.0803	0.0803	0.0000	0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
2025	1.0841	0.6254	0.8739	1.4400e-003	0.0000	0.0275	0.0275	0.0000	0.0258	0.0258	0.0000	124.1525	124.1525	0.0315	0.0000	124.9393
Maximum	1.0841	2.6303	2.5719	4.7700e-003	0.4420	0.1208	0.5629	0.1891	0.1125	0.3016	0.0000	414.7456	414.7456	0.1156	0.0000	417.6348

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Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0855	1.7405	3.0414	4.7700e-003	0.1989	0.0111	0.2100	0.0851	0.0111	0.0962	0.0000	414.7451	414.7451	0.1156	0.0000	417.6343
2024	0.0699	1.4295	2.3415	3.5300e-003	0.0000	0.0111	0.0111	0.0000	0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
2025	1.0415	0.5925	0.9871	1.4400e-003	0.0000	3.81E-03	3.8100e-003	0.0000	3.8100e-003	3.8100e-003	0.0000	124.1523	124.1523	0.0315	0.0000	124.9392
Maximum	1.0415	1.7405	3.0414	4.7700e-003	0.1989	0.0111	0.2100	0.0851	0.0111	0.0962	0.0000	414.7451	414.7451	0.1156	0.0000	417.6343

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	22.77	25.00	-14.49	0.00	55.00	88.63	66.46	55.00	87.84	72.43	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.9654	0.5195
2	4-2-2023	7-1-2023	0.8891	0.5565
3	7-2-2023	10-1-2023	0.5243	0.3761
4	10-2-2023	1-1-2024	0.5240	0.3761
5	1-2-2024	4-1-2024	0.4847	0.3720
6	4-2-2024	7-1-2024	0.4847	0.3720
7	7-2-2024	10-1-2024	0.4901	0.3761
8	10-2-2024	1-1-2025	0.4897	0.3761

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9	1-2-2025	4-1-2025	0.4448	0.3679
10	4-2-2025	7-1-2025	1.1962	1.1941
11	7-2-2025	9-30-2025	0.0577	0.0630
		Highest	1.1962	1.1941

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	1/2/2023	2/10/2023	5	30	
2	Site Preparation	Site Preparation	2/11/2023	3/10/2023	5	20	
3	Grading	Grading	3/11/2023	5/12/2023	5	45	
4	Trenching	Trenching	3/11/2023	5/12/2023	5	45	
5	Building Construction	Building Construction	5/13/2023	4/11/2025	5	500	
6	Architectural Coating	Architectural Coating	4/12/2025	5/30/2025	5	35	
7	Paving	Paving	5/31/2025	7/18/2025	5	35	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 135

Acres of Paving: 0

Residential Indoor: 1,198,494; Residential Outdoor: 399,498; Non-Residential Indoor: 241,743; Non-Residential Outdoor: 80,581; Striped Parking Area:

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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

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Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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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	0.0440	0.9003	1.4746	2.2200e-003		6.9800e-003	6.9800e-003		6.9800e-003	6.9800e-003	0.0000	191.2387	191.2387	0.0455	0.0000	192.3760
Total	0.0440	0.9003	1.4746	2.2200e-003		6.9800e-003	6.9800e-003		6.9800e-003	6.9800e-003	0.0000	191.2387	191.2387	0.0455	0.0000	192.3760

Mitigated Construction Off-Site

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

3.6 Building Construction - 2024

Unmitigated Construction On-Site

4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0699	1.4295	2.3415	3.5300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	0.0699	1.4295	2.3415	3.5300e-003		0.0111	0.0111		0.0111	0.0111	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175

Mitigated Construction Off-Site

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

3.6 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
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4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

Category	tons/yr										MT/yr					
	Off-Road	0.0499	0.4551	0.5871	9.8000e-004		0.0193	0.0193		0.0181	0.0181	0.0000	84.6506	84.6506	0.0199	0.0000
Total	0.0499	0.4551	0.5871	9.8000e-004		0.0193	0.0193		0.0181	0.0181	0.0000	84.6506	84.6506	0.0199	0.0000	85.1481

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

Off-Road	9.5000e-004	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743
Total	1.0161	0.0186	0.0321	5.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	4.4682	4.4682	2.4000e-004	0.0000	4.4743

Mitigated Construction Off-Site

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

3.8 Paving - 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	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170

4300 Stevens Creek Blvd, San Jose - Santa Clara County, Annual

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

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0160	0.1502	0.2551	4.0000e-004		7.3200e-003	7.3200e-003		6.7400e-003	6.7400e-003	0.0000	35.0337	35.0337	0.0113	0.0000	35.3170

Unmitigated Construction Off-Site

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

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	5.8500e-003	0.1757	0.3027	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.0337	35.0337	0.0113	0.0000	35.3169

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

**4300 Stevens Creek Blvd, San Jose - Existing
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	136.80	1000sqft	3.14	136,800.00	0
Parking Lot	6.08	Acre	6.08	264,844.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2026
Utility Company	San Jose Clean Energy				
CO2 Intensity (lb/MW hr)	807.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Existing Land Use - Office sf from trip gen data
- Construction Phase - Existing Operational only
- Off-road Equipment - Existing Operational only
- Grading -
- Vehicle Trips - Trip gen provided
- Vehicle Emission Factors - EMFAC2021 Vehicle Emission Factors Santa Clara Co 2026
- Fleet Mix - EMFAC2021 Fleet Mix Santa Clara Co 2026
- Energy Use - Historical energy use

Table Name	Column Name	Default Value	New Value
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4300 Stevens Creek Blvd, San Jose - Existing - Santa Clara County, Annual

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

tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	PhaseEndDate	2/10/2023	1/30/2023
tblEnergyUse	LightingElect	4.72	3.88
tblEnergyUse	LightingElect	0.88	0.35
tblEnergyUse	T24E	8.01	5.45
tblEnergyUse	T24NG	19.90	16.14
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	HHD	6.3120e-003	7.5470e-003
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDA	0.57	0.53
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT1	0.06	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	LHD2	5.2090e-003	5.8310e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MH	2.6680e-003	2.5100e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	MHD	8.0910e-003	9.4770e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	OBUS	8.8400e-004	1.0590e-003
tblFleetMix	SBUS	8.8700e-004	6.8400e-004

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

tblFleetMix	SBUS	8.8700e-004	6.8400e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblFleetMix	UBUS	3.6400e-004	4.1000e-004
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblVehicleEF	HHD	0.02	0.22
tblVehicleEF	HHD	0.05	0.11
tblVehicleEF	HHD	6.31	5.15
tblVehicleEF	HHD	0.41	0.73
tblVehicleEF	HHD	5.9100e-003	7.3800e-004
tblVehicleEF	HHD	1,010.86	795.67
tblVehicleEF	HHD	1,358.12	1,554.97
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.16	0.13
tblVehicleEF	HHD	0.22	0.25
tblVehicleEF	HHD	5.0000e-006	8.0000e-006
tblVehicleEF	HHD	5.31	4.01
tblVehicleEF	HHD	2.65	1.70
tblVehicleEF	HHD	2.32	2.76
tblVehicleEF	HHD	2.4220e-003	2.0130e-003
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.3170e-003	1.9190e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8910e-003	8.7830e-003

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

tblVehicleEF	HHD	0.02	0.02
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005
tblVehicleEF	HHD	0.43	0.32
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.4050e-003	6.9240e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	2.0000e-006	1.0600e-004
tblVehicleEF	HHD	7.9000e-005	3.4000e-005
tblVehicleEF	HHD	0.49	0.58
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	0.08	0.13
tblVehicleEF	HHD	3.5000e-005	3.0300e-004
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	LDA	1.3660e-003	1.6750e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.47	0.57
tblVehicleEF	LDA	1.93	2.55
tblVehicleEF	LDA	220.20	235.10
tblVehicleEF	LDA	46.75	60.77
tblVehicleEF	LDA	3.5660e-003	3.6780e-003
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.15	0.21
tblVehicleEF	LDA	0.04	7.1220e-003

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

tblVehicleEF	LDA	1.1800e-003	1.0710e-003
tblVehicleEF	LDA	1.5670e-003	1.7910e-003
tblVehicleEF	LDA	0.02	2.4930e-003
tblVehicleEF	LDA	1.0860e-003	9.8600e-004
tblVehicleEF	LDA	1.4410e-003	1.6470e-003
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	4.9090e-003	6.2070e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.16	0.25
tblVehicleEF	LDA	2.1780e-003	2.3240e-003
tblVehicleEF	LDA	4.6300e-004	6.0100e-004
tblVehicleEF	LDA	0.03	0.25
tblVehicleEF	LDA	0.08	0.07
tblVehicleEF	LDA	0.03	0.00
tblVehicleEF	LDA	7.1350e-003	9.0460e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.18	0.28
tblVehicleEF	LDT1	2.7310e-003	5.0100e-003
tblVehicleEF	LDT1	0.05	0.09
tblVehicleEF	LDT1	0.71	1.21
tblVehicleEF	LDT1	2.08	4.52
tblVehicleEF	LDT1	264.87	316.42
tblVehicleEF	LDT1	56.84	82.70
tblVehicleEF	LDT1	4.8810e-003	7.9710e-003
tblVehicleEF	LDT1	0.02	0.04
tblVehicleEF	LDT1	0.05	0.10
tblVehicleEF	LDT1	0.19	0.34

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

tblVehicleEF	LDT1	0.04	9.2110e-003
tblVehicleEF	LDT1	1.4310e-003	1.7060e-003
tblVehicleEF	LDT1	1.8820e-003	2.6150e-003
tblVehicleEF	LDT1	0.02	3.2240e-003
tblVehicleEF	LDT1	1.3170e-003	1.5700e-003
tblVehicleEF	LDT1	1.7300e-003	2.4040e-003
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.22	0.46
tblVehicleEF	LDT1	2.6210e-003	3.1280e-003
tblVehicleEF	LDT1	5.6300e-004	8.1800e-004
tblVehicleEF	LDT1	0.06	0.53
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	0.05	0.00
tblVehicleEF	LDT1	0.02	0.03
tblVehicleEF	LDT1	0.07	0.41
tblVehicleEF	LDT1	0.24	0.50
tblVehicleEF	LDT2	2.4210e-003	2.4020e-003
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.65	0.74
tblVehicleEF	LDT2	2.52	3.24
tblVehicleEF	LDT2	280.92	326.78
tblVehicleEF	LDT2	60.84	83.29
tblVehicleEF	LDT2	4.9510e-003	5.3470e-003
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.05	0.06

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

tblVehicleEF	LDT2	0.21	0.29
tblVehicleEF	LDT2	0.04	8.8560e-003
tblVehicleEF	LDT2	1.2560e-003	1.2430e-003
tblVehicleEF	LDT2	1.6140e-003	2.0020e-003
tblVehicleEF	LDT2	0.02	3.1000e-003
tblVehicleEF	LDT2	1.1560e-003	1.1440e-003
tblVehicleEF	LDT2	1.4840e-003	1.8410e-003
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	9.5280e-003	9.2320e-003
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.24	0.33
tblVehicleEF	LDT2	2.7790e-003	3.2300e-003
tblVehicleEF	LDT2	6.0200e-004	8.2300e-004
tblVehicleEF	LDT2	0.06	0.28
tblVehicleEF	LDT2	0.11	0.08
tblVehicleEF	LDT2	0.05	0.00
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.21
tblVehicleEF	LDT2	0.27	0.36
tblVehicleEF	LHD1	4.6670e-003	5.0240e-003
tblVehicleEF	LHD1	6.7660e-003	6.5110e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.18	0.19
tblVehicleEF	LHD1	0.61	0.77
tblVehicleEF	LHD1	0.99	2.16
tblVehicleEF	LHD1	8.66	8.48
tblVehicleEF	LHD1	749.59	747.67

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tblVehicleEF	LHD1	11.02	17.34
tblVehicleEF	LHD1	7.4200e-004	6.3000e-004
tblVehicleEF	LHD1	0.04	0.04
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	0.05	0.04
tblVehicleEF	LHD1	0.50	0.52
tblVehicleEF	LHD1	0.27	0.40
tblVehicleEF	LHD1	8.7200e-004	6.8700e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8310e-003	9.4180e-003
tblVehicleEF	LHD1	8.5970e-003	0.01
tblVehicleEF	LHD1	2.3200e-004	1.9000e-004
tblVehicleEF	LHD1	8.3400e-004	6.5700e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4580e-003	2.3550e-003
tblVehicleEF	LHD1	8.1790e-003	0.01
tblVehicleEF	LHD1	2.1300e-004	1.7400e-004
tblVehicleEF	LHD1	1.7170e-003	0.12
tblVehicleEF	LHD1	0.06	0.03
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.08	0.07
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	8.4000e-005	8.3000e-005
tblVehicleEF	LHD1	7.3150e-003	7.3000e-003
tblVehicleEF	LHD1	1.0900e-004	1.7100e-004
tblVehicleEF	LHD1	1.7170e-003	0.12
tblVehicleEF	LHD1	0.06	0.03

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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	9.0400e-004	0.00
tblVehicleEF	LHD1	0.10	0.09
tblVehicleEF	LHD1	0.19	0.17
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD2	2.8270e-003	2.9010e-003
tblVehicleEF	LHD2	6.0420e-003	5.9100e-003
tblVehicleEF	LHD2	6.5340e-003	0.01
tblVehicleEF	LHD2	0.14	0.14
tblVehicleEF	LHD2	0.54	0.49
tblVehicleEF	LHD2	0.55	1.18
tblVehicleEF	LHD2	13.60	13.61
tblVehicleEF	LHD2	727.00	794.48
tblVehicleEF	LHD2	7.15	9.38
tblVehicleEF	LHD2	1.7170e-003	1.6800e-003
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.60	0.73
tblVehicleEF	LHD2	0.15	0.22
tblVehicleEF	LHD2	1.4660e-003	1.4060e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.1700e-004	8.1000e-005
tblVehicleEF	LHD2	1.4020e-003	1.3460e-003
tblVehicleEF	LHD2	0.04	0.03
tblVehicleEF	LHD2	2.7000e-003	2.6660e-003
tblVehicleEF	LHD2	0.01	0.02

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tblVehicleEF	LHD2	1.0800e-004	7.5000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	7.0160e-003	7.6510e-003
tblVehicleEF	LHD2	7.1000e-005	9.3000e-005
tblVehicleEF	LHD2	8.4300e-004	0.06
tblVehicleEF	LHD2	0.03	0.01
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.5700e-004	0.00
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	0.08	0.08
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.32	0.15
tblVehicleEF	MCY	0.25	0.17
tblVehicleEF	MCY	18.17	11.99
tblVehicleEF	MCY	9.11	7.93
tblVehicleEF	MCY	209.94	186.84
tblVehicleEF	MCY	60.17	46.31
tblVehicleEF	MCY	0.07	0.04
tblVehicleEF	MCY	0.02	7.3810e-003
tblVehicleEF	MCY	1.14	0.55
tblVehicleEF	MCY	0.27	0.12
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0610e-003	1.9450e-003

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tblVehicleEF	MCY	2.9290e-003	3.4700e-003
tblVehicleEF	MCY	5.0400e-003	4.2000e-003
tblVehicleEF	MCY	1.9240e-003	1.8180e-003
tblVehicleEF	MCY	2.7480e-003	3.2560e-003
tblVehicleEF	MCY	0.90	3.85
tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.16	0.99
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	1.91	1.27
tblVehicleEF	MCY	2.0780e-003	1.8470e-003
tblVehicleEF	MCY	5.9500e-004	4.5800e-004
tblVehicleEF	MCY	0.90	0.09
tblVehicleEF	MCY	0.66	3.56
tblVehicleEF	MCY	0.48	0.00
tblVehicleEF	MCY	2.70	1.20
tblVehicleEF	MCY	0.51	3.77
tblVehicleEF	MCY	2.08	1.38
tblVehicleEF	MDV	2.6580e-003	2.9620e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.67	0.81
tblVehicleEF	MDV	2.67	3.40
tblVehicleEF	MDV	339.08	392.60
tblVehicleEF	MDV	72.17	99.29
tblVehicleEF	MDV	6.5120e-003	6.9830e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.05	0.07
tblVehicleEF	MDV	0.24	0.35
tblVehicleEF	MDV	0.04	8.9510e-003

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tblVehicleEF	MDV	1.3050e-003	1.2470e-003
tblVehicleEF	MDV	1.6620e-003	1.9840e-003
tblVehicleEF	MDV	0.02	3.1330e-003
tblVehicleEF	MDV	1.2040e-003	1.1490e-003
tblVehicleEF	MDV	1.5280e-003	1.8240e-003
tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.06	0.24
tblVehicleEF	MDV	0.28	0.41
tblVehicleEF	MDV	3.3510e-003	3.8790e-003
tblVehicleEF	MDV	7.1400e-004	9.8200e-004
tblVehicleEF	MDV	0.06	0.32
tblVehicleEF	MDV	0.12	0.08
tblVehicleEF	MDV	0.06	0.00
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.06	0.24
tblVehicleEF	MDV	0.31	0.45
tblVehicleEF	MH	7.6660e-003	9.9190e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.68	0.93
tblVehicleEF	MH	1.87	2.26
tblVehicleEF	MH	1,445.75	1,674.32
tblVehicleEF	MH	17.15	21.62
tblVehicleEF	MH	0.06	0.07
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	1.21	1.44
tblVehicleEF	MH	0.24	0.30

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tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.4000e-004	2.8100e-004
tblVehicleEF	MH	0.06	0.02
tblVehicleEF	MH	3.2870e-003	3.3150e-003
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	2.2100e-004	2.5800e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36
tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.08	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	1.7000e-004	2.1400e-004
tblVehicleEF	MH	0.52	28.55
tblVehicleEF	MH	0.04	7.36
tblVehicleEF	MH	0.19	0.00
tblVehicleEF	MH	0.07	0.09
tblVehicleEF	MH	0.01	0.18
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MHD	3.6600e-003	0.01
tblVehicleEF	MHD	1.3680e-003	9.5250e-003
tblVehicleEF	MHD	8.6830e-003	7.9190e-003
tblVehicleEF	MHD	0.40	0.66
tblVehicleEF	MHD	0.19	0.26
tblVehicleEF	MHD	0.97	0.93
tblVehicleEF	MHD	69.63	156.70

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tblVehicleEF	MHD	1,051.19	1,196.53
tblVehicleEF	MHD	8.85	7.91
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	0.13	0.15
tblVehicleEF	MHD	7.3550e-003	5.6890e-003
tblVehicleEF	MHD	0.38	0.84
tblVehicleEF	MHD	1.45	0.91
tblVehicleEF	MHD	1.70	1.39
tblVehicleEF	MHD	2.7700e-004	1.4450e-003
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	7.0640e-003	9.6350e-003
tblVehicleEF	MHD	1.1200e-004	9.6000e-005
tblVehicleEF	MHD	2.6500e-004	1.3820e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	6.7520e-003	9.2100e-003
tblVehicleEF	MHD	1.0300e-004	8.9000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.01	0.03
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	6.6100e-004	1.4520e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	8.8000e-005	7.8000e-005
tblVehicleEF	MHD	3.3400e-004	0.02
tblVehicleEF	MHD	0.02	5.1060e-003
tblVehicleEF	MHD	0.02	0.04

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tblVehicleEF	MHD	1.8000e-004	0.00
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.02	0.04
tblVehicleEF	MHD	0.05	0.05
tblVehicleEF	OBUS	7.0720e-003	7.5520e-003
tblVehicleEF	OBUS	2.9940e-003	9.8650e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.61	0.53
tblVehicleEF	OBUS	0.35	0.40
tblVehicleEF	OBUS	1.73	1.78
tblVehicleEF	OBUS	95.34	88.16
tblVehicleEF	OBUS	1,283.24	1,344.05
tblVehicleEF	OBUS	14.49	14.24
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.13	0.16
tblVehicleEF	OBUS	0.02	0.01
tblVehicleEF	OBUS	0.40	0.36
tblVehicleEF	OBUS	1.45	0.93
tblVehicleEF	OBUS	1.11	0.99
tblVehicleEF	OBUS	1.3100e-004	3.9000e-004
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.5500e-003	0.01
tblVehicleEF	OBUS	1.4900e-004	1.2900e-004
tblVehicleEF	OBUS	1.2600e-004	3.7300e-004
tblVehicleEF	OBUS	0.06	0.02
tblVehicleEF	OBUS	7.2100e-003	0.01
tblVehicleEF	OBUS	1.3700e-004	1.1800e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02

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tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.02	0.04
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.08	0.09
tblVehicleEF	OBUS	9.0500e-004	8.3300e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	1.4300e-004	1.4100e-004
tblVehicleEF	OBUS	1.0720e-003	0.07
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.05
tblVehicleEF	OBUS	4.8300e-004	0.00
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.09	0.09
tblVehicleEF	SBUS	0.06	0.08
tblVehicleEF	SBUS	5.4710e-003	0.09
tblVehicleEF	SBUS	5.3640e-003	4.9930e-003
tblVehicleEF	SBUS	2.48	1.73
tblVehicleEF	SBUS	0.45	0.84
tblVehicleEF	SBUS	0.76	0.68
tblVehicleEF	SBUS	344.98	188.59
tblVehicleEF	SBUS	1,025.26	1,007.35
tblVehicleEF	SBUS	4.41	3.84
tblVehicleEF	SBUS	0.05	0.02
tblVehicleEF	SBUS	0.13	0.12
tblVehicleEF	SBUS	5.3260e-003	4.5020e-003
tblVehicleEF	SBUS	3.24	1.31
tblVehicleEF	SBUS	4.17	2.24

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tblVehicleEF	SBUS	0.95	0.50
tblVehicleEF	SBUS	3.0570e-003	1.1130e-003
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.4000e-005	4.2000e-005
tblVehicleEF	SBUS	2.9250e-003	1.0640e-003
tblVehicleEF	SBUS	0.32	0.02
tblVehicleEF	SBUS	2.7030e-003	2.6360e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	5.0000e-005	3.9000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003
tblVehicleEF	SBUS	0.27	0.19
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.08	0.05
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	3.2860e-003	1.7120e-003
tblVehicleEF	SBUS	9.7970e-003	9.3590e-003
tblVehicleEF	SBUS	4.4000e-005	3.8000e-005
tblVehicleEF	SBUS	6.4100e-004	0.03
tblVehicleEF	SBUS	6.2050e-003	8.3130e-003
tblVehicleEF	SBUS	0.39	0.31
tblVehicleEF	SBUS	2.9200e-004	0.00
tblVehicleEF	SBUS	0.09	0.15
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	UBUS	1.74	0.53

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tblVehicleEF	UBUS	1.7570e-003	3.7120e-003
tblVehicleEF	UBUS	13.20	6.31
tblVehicleEF	UBUS	0.14	0.50
tblVehicleEF	UBUS	1,654.13	1,064.85
tblVehicleEF	UBUS	1.40	3.15
tblVehicleEF	UBUS	0.28	0.16
tblVehicleEF	UBUS	1.1340e-003	6.0350e-003
tblVehicleEF	UBUS	0.71	0.29
tblVehicleEF	UBUS	0.01	0.04
tblVehicleEF	UBUS	0.07	0.13
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	5.1700e-003	5.5470e-003
tblVehicleEF	UBUS	1.5000e-005	1.2000e-005
tblVehicleEF	UBUS	0.03	0.04
tblVehicleEF	UBUS	8.3320e-003	0.01
tblVehicleEF	UBUS	4.9450e-003	5.3030e-003
tblVehicleEF	UBUS	1.4000e-005	1.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01
tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	0.03	0.06
tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	7.3620e-003	0.01
tblVehicleEF	UBUS	0.01	8.5860e-003
tblVehicleEF	UBUS	1.4000e-005	3.1000e-005
tblVehicleEF	UBUS	2.7000e-005	0.01
tblVehicleEF	UBUS	2.5800e-004	3.7810e-003
tblVehicleEF	UBUS	1.3000e-005	0.00
tblVehicleEF	UBUS	1.78	0.60

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tblVehicleEF	UBUS	5.2000e-005	7.9860e-003
tblVehicleEF	UBUS	8.0600e-003	0.01
tblVehicleTrips	ST_TR	2.21	1.56
tblVehicleTrips	SU_TR	0.70	0.49
tblVehicleTrips	WD_TR	9.74	6.88

2.0 Emissions Summary

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	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.72E-03
Energy	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	1,013.0757	1,013.0757	0.0388	6.6000e-003	1,016.01
Mobile	0.4028	0.2783	2.5950	6.0900e-003	0.5768	4.1100e-003	0.5809	0.1439	3.8300e-003	0.1477	0.0000	562.3736	562.3736	0.0293	0.0259	570.8213
Waste						0.0000	0.0000		0.0000	0.0000	25.8245	0.0000	25.8245	1.5262	0.0000	63.9791
Water						0.0000	0.0000		0.0000	0.0000	7.7137	67.3323	75.0460	0.7950	0.0190	100.5957
Total	1.0431	0.3869	2.6875	6.7400e-003	0.5768	0.0124	0.5892	0.1439	0.0121	0.1559	33.5382	1,642.7842	1,676.3224	2.3893	0.0515	1,751.4110

Mitigated Operational

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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					
Area	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	1,013.0757	1,013.0757	0.0388	6.6000e-003	1,016.0123
Mobile	0.4028	0.2783	2.5950	6.0900e-003	0.5768	4.1100e-003	0.5809	0.1439	3.8300e-003	0.1477	0.0000	562.3736	562.3736	0.0293	0.0259	570.8213
Waste						0.0000	0.0000		0.0000	0.0000	25.8245	0.0000	25.8245	1.5262	0.0000	63.9791
Water						0.0000	0.0000		0.0000	0.0000	7.7137	67.3323	75.0460	0.7950	0.0190	100.5957
Total	1.0431	0.3869	2.6875	6.7400e-003	0.5768	0.0124	0.5892	0.1439	0.0121	0.1559	33.5382	1,642.7842	1,676.3224	2.3893	0.0515	1,751.4110

	ROG	NOx	CO	SO2	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

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
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4300 Stevens Creek Blvd, San Jose - Existing - Santa Clara County, Annual

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

Category	tons/yr										MT/yr					
	Mitigated	0.4028	0.2783	2.5950	6.0900e-003	0.5768	4.1100e-003	0.5809	0.1439	3.8300e-003	0.1477	0.0000	562.3736	562.3736	0.0293	0.0259
Unmitigated	0.4028	0.2783	2.5950	6.0900e-003	0.5768	4.1100e-003	0.5809	0.1439	3.8300e-003	0.1477	0.0000	562.3736	562.3736	0.0293	0.0259	570.8213

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
General Office Building	941.18	213.41	67.03	1,702,310	1,702,310
Parking Lot	0.00	0.00	0.00		
Total	941.18	213.41	67.03	1,702,310	1,702,310

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510
Parking Lot	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.000410	0.022079	0.000684	0.002510

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	894.8130	894.8130	0.0366	4.4300e-003	897.0467
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	894.8130	894.8130	0.0366	4.4300e-003	897.0467
NaturalGas Mitigated	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655
NaturalGas Unmitigated	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655

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					
General Office Building	2.21616e+006	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655
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
Total		0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655

Mitigated

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	2.21616e+006	0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655
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
Total		0.0120	0.1086	0.0913	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003	0.0000	118.2627	118.2627	2.2700e-003	2.1700e-003	118.9655

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.34886e+006	860.8406	0.0352	4.2600e-003	862.9896
Parking Lot	92695.7	33.9724	1.3900e-003	1.7000e-004	34.0572
Total		894.8130	0.0366	4.4300e-003	897.0467

Mitigated

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	2.34886e+006	860.8406	0.0352	4.2600e-003	862.9896
Parking Lot	92695.7	33.9724	1.3900e-003	1.7000e-004	34.0572
Total		894.8130	0.0366	4.4300e-003	897.0467

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	tons/yr										MT/yr					
Mitigated	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003

6.2 Area by SubCategory

Unmitigated

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0769					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003

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	0.0769					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5514					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.6284	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5500e-003	2.5500e-003	1.0000e-005	0.0000	2.7200e-003

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.0460	0.7950	0.0190	100.5957
Unmitigated	75.0460	0.7950	0.0190	100.5957

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	24.314 / 14.9021	75.0460	0.7950	0.0190	100.5957
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		75.0460	0.7950	0.0190	100.5957

Mitigated

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	24.314 / 14.9021	75.0460	0.7950	0.0190	100.5957
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		75.0460	0.7950	0.0190	100.5957

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	25.8245	1.5262	0.0000	63.9791
Unmitigated	25.8245	1.5262	0.0000	63.9791

8.2 Waste by Land Use

Unmitigated

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	127.22	25.8245	1.5262	0.0000	63.9791
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		25.8245	1.5262	0.0000	63.9791

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	127.22	25.8245	1.5262	0.0000	63.9791
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		25.8245	1.5262	0.0000	63.9791

9.0 Operational Offroad

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

Attachment 3: EMFAC2021 Emissions

Summary of Construction Traffic Emissions (EMFAC2021)

Pollutants YEAR	ROG	NOx	CO	SO2	Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5	NBio- CO2	CH4	N2O	CO2e
					PM10	PM10	Total	PM2.5	PM2.5	Total				
<i>Tons</i>														
Criteria Pollutants														
2023	0.2008	0.7079	2.2348	0.0080	0.5189	0.0540	0.5729	0.0781	0.0217	0.0998	754.1804	0.0359	0.0641	774.1922
2024	0.1890	0.6732	2.0939	0.0079	0.5217	0.0539	0.5756	0.0785	0.0214	0.1000	744.8976	0.0344	0.0630	764.5203
2025	0.0967	0.3464	1.0657	0.0042	0.2837	0.0291	0.3127	0.0427	0.0115	0.0541	397.1249	0.0178	0.0334	407.5156
Toxic Air Contaminants (0.5 Mile Trip Length)														
2023	0.1718	0.2271	0.7326	0.0007	0.0255	0.0034	0.0288	0.0038	0.0016	0.0054	65.1676	0.0158	0.0105	68.6828
2024	0.1631	0.2231	0.6937	0.0007	0.0256	0.0034	0.0289	0.0039	0.0015	0.0054	64.3209	0.0151	0.0103	67.7571
2025	0.0842	0.1184	0.3561	0.0004	0.0139	0.0018	0.0157	0.0021	0.0008	0.0029	34.2765	0.0078	0.0054	36.0911

CalEEMod Construction Inputs

Phase	CalEEMod	CalEEMod	Total	Total	CalEEMod	Worker Trip	Vendor Trip	Hauling Trip	Worker Vehicle	Vendor Vehicle	Hauling Vehicle	Worker	Vendor	Hauling
	WORKER	VENDOR	Worker	Vendor	HAULING									
Demolition	15	0	450	0	907	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	4860	0	18140
Site Preparation	18	0	360	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	3888	0	0
Grading	20	0	900	0	1,031	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	9720	0	20620
Trenching	5	0	225	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	2430	0	0
Building Construction	624	143	312000	71500	1778	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	3369600	521950	12979.4
Architectural Coating	125	0	4375	0	0	10.8	7.3	20	LD_Mix	HDT_Mix	HHDT	47250	0	0
Paving	15	0	525	0	122	10.8	7.3	7.3	LD_Mix	HDT_Mix	HHDT	5670	0	890.6

Number of Days Per Year

2023	1/2/23	12/31/23	364	260
2024	1/1/24	12/31/24	366	262
2025	1/1/25	7/18/25	199	142
			929	664 Total Workdays

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	1/2/2023	2/10/2023	5	30
Site Preparation	2/11/2023	3/10/2023	5	20
Grading	3/11/2023	5/12/2023	5	45
Trenching	3/11/2023	5/12/2023	5	45
Building Construction	5/13/2023	4/11/2025	5	500
Architectural Coating	4/12/2025	5/30/2025	5	35
Paving	5/31/2025	7/18/2025	5	35

CalEEMod EMFAC2021 Emission Factors Input

Year 2026

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
A	CH4_IDLEX		0	0	0	0	0.005024	0.002901	0.014329	0.224308568	0.007552	0	0	0.077545	0
A	CH4_RUNEX	0.001675	0.00501	0.002402	0.002962	0.006511	0.00591	0.009525	0.111846137	0.009865	0.533854641	0.154451	0.090415	0.009919	
A	CH4_STREX	0.056959	0.091594	0.07317	0.0841	0.020518	0.010947	0.007919	7.49827E-08	0.016116	0.003711567	0.172746	0.004993	0.025168	
A	CO_IDLEX		0	0	0	0	0.193382	0.139764	0.664762	5.153655195	0.53297	0	0	1.729088	0
A	CO_RUNEX	0.573055	1.207794	0.74197	0.807087	0.767637	0.490256	0.257149	0.733099915	0.401188	6.307010922	11.99329	0.836984	0.927158	
A	CO_STREX	2.554061	4.515511	3.238665	3.39519	2.163001	1.175504	0.934813	0.000737725	1.778436	0.497532984	7.931677	0.675054	2.264736	
A	CO2_NBIO_IDLEX		0	0	0	0	8.476906	13.60976	156.6958	795.6699429	88.15791	0	0	188.587	0
A	CO2_NBIO_RUNEX	235.102	316.4191	326.7826	392.6003	747.6667	794.4808	1196.529	1554.973392	1344.054	1064.852599	186.8446	1007.354	1674.317	
A	CO2_NBIO_STREX	60.77252	82.69943	83.28568	99.28707	17.33995	9.379616	7.914622	0.013527798	14.24203	3.148221534	46.30646	3.836494	21.6173	
A	NOX_IDLEX		0	0	0	0	0.04434	0.086409	0.837392	4.013652026	0.3605	0	0	1.308491	0
A	NOX_RUNEX	0.030375	0.103204	0.056004	0.074529	0.516639	0.725632	0.906229	1.701647234	0.930849	0.294278253	0.54585	2.244119	1.44219	
A	NOX_STREX	0.20795	0.337562	0.292244	0.347081	0.400976	0.21716	1.391692	2.760133946	0.991531	0.038127875	0.123182	0.502734	0.298756	
A	PM10_IDLEX		0	0	0	0	0.000687	0.001406	0.001445	0.002012959	0.00039	0	0	0.001113	0
A	PM10_PMBW	0.007122	0.009211	0.008856	0.008951	0.077204	0.090087	0.045088	0.081458247	0.049896	0.125580022	0.012	0.044699	0.044944	
A	PM10_PMTW	0.008	0.008	0.008	0.008	0.009418	0.010663	0.012	0.035131691	0.012	0.044105924	0.004	0.010543	0.013261	
A	PM10_RUNEX	0.001071	0.001706	0.001243	0.001247	0.012107	0.020463	0.009635	0.024769283	0.014798	0.005547054	0.001945	0.011633	0.027752	
A	PM10_STREX	0.001791	0.002615	0.002002	0.001984	0.00019	8.13E-05	9.63E-05	3.29375E-07	0.000129	1.21095E-05	0.00347	4.23E-05	0.000281	
A	PM25_IDLEX		0	0	0	0	0.000657	0.001346	0.001382	0.001919468	0.000373	0	0	0.001064	0
A	PM25_PMBW	0.002493	0.003224	0.0031	0.003133	0.027021	0.03153	0.015781	0.028510387	0.017464	0.043953008	0.0042	0.015645	0.01573	
A	PM25_PMTW	0.002	0.002	0.002	0.002	0.002355	0.002666	0.003	0.008782923	0.003	0.011026481	0.001	0.002636	0.003315	
A	PM25_RUNEX	0.000986	0.00157	0.001144	0.001149	0.011546	0.019561	0.00921	0.02369428	0.014149	0.005303299	0.001818	0.011114	0.026508	
A	PM25_STREX	0.001647	0.002404	0.001841	0.001824	0.000174	7.48E-05	8.86E-05	3.02848E-07	0.000118	1.11343E-05	0.003256	3.89E-05	0.000258	
A	ROG_DIURN	0.254504	0.529723	0.279092	0.322903	0.116726	0.060196	0.021313	0.000106002	0.073271	0.010212124	3.854231	0.032962	28.55295	
A	ROG_HTSK	0.07369	0.147578	0.075291	0.084543	0.028726	0.014862	0.005106	3.36143E-05	0.016123	0.003780717	3.558543	0.008313	7.360966	
A	ROG_IDLEX		0	0	0	0	0.020461	0.015058	0.024261	0.32445582	0.04037	0	0	0.189085	0
A	ROG_RESTL		0	0	0	0	0	0	0	0	0	0	0	0	0
A	ROG_RUNEX	0.006207	0.021876	0.009232	0.012163	0.073128	0.102722	0.027662	0.017018907	0.041494	0.059153068	0.991178	0.051281	0.070828	
A	ROG_RUNLS	0.190989	0.413908	0.208399	0.244508	0.165357	0.082688	0.042018	0.000302729	0.081242	0.00798618	3.769688	0.021611	0.176029	
A	ROG_STREX	0.254258	0.45831	0.332523	0.408327	0.100626	0.053154	0.043043	4.06848E-07	0.08541	0.013136414	1.267526	0.028372	0.103602	
A	SO2_IDLEX		0	0	0	0	8.25E-05	0.00013	0.001452	0.006923512	0.000833	0	0	0.001712	0
A	SO2_RUNEX	0.002324	0.003128	0.00323	0.003879	0.0073	0.007651	0.011344	0.014049606	0.012819	0.008586151	0.001847	0.009359	0.016412	
A	SO2_STREX	0.000601	0.000818	0.000823	0.000982	0.000171	9.27E-05	7.82E-05	1.33736E-07	0.000141	3.11234E-05	0.000458	3.79E-05	0.000214	
A	TOG_DIURN	0.254504	0.529723	0.279092	0.322903	0.116726	0.060196	0.021313	0.000106002	0.073271	0.010212124	0.085098	0.032962	28.55295	
A	TOG_HTSK	0.07369	0.147578	0.075291	0.084543	0.028726	0.014862	0.005106	3.36143E-05	0.016123	0.003780717	3.558543	0.008313	7.360966	
A	TOG_IDLEX		0	0	0	0	0.028987	0.020219	0.041853	0.579654551	0.053441	0	0	0.308305	0
A	TOG_RESTL		0	0	0	0	0	0	0	0	0	0	0	0	0
A	TOG_RUNEX	0.009046	0.031907	0.013457	0.017701	0.08958	0.119	0.040924	0.131035808	0.057178	0.601092032	1.200425	0.149659	0.091829	
A	TOG_RUNLS	0.190989	0.413908	0.208399	0.244508	0.165357	0.082688	0.042018	0.000302729	0.081242	0.00798618	3.769688	0.021611	0.176029	
A	TOG_STREX	0.27838	0.501792	0.364071	0.447067	0.110173	0.058197	0.047127	4.45447E-07	0.093513	0.01438272	1.378329	0.031064	0.113431	
A	N2O_IDLEX		0	0	0	0	0.00063	0.00168	0.024186	0.128345993	0.012682	0	0	0.024778	0
A	N2O_RUNEX	0.003678	0.007971	0.005347	0.006983	0.039725	0.080555	0.153578	0.248265947	0.156351	0.163683708	0.038475	0.124	0.068939	
A	N2O_STREX	0.027983	0.036165	0.034432	0.036101	0.033064	0.017628	0.005689	8.0417E-06	0.013951	0.006034849	0.007381	0.004502	0.032161	

CalEEMod EMFAC2021 Fleet Mix Input

Year 2026

FleetMixLandUseSubType LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
Apartments Mid Rise	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251
Enclosed Parking with Elev	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251
Hotel	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251
Strip Mall	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251

CalEEMod EMFAC2021 Fleet Mix Input**Year 2026**

FleetMixLandUseSubType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251
Parking Lot	0.525374	0.039228	0.232277	0.130076	0.023447	0.005831	0.009477	0.007547	0.001059	0.00041	0.022079	0.000684	0.00251

Attachment 4: Project Construction Dispersion Modeling Inputs and Risk Calculations

4300 Stevens Creek Blvd, San Jose, CA

Year	Unmitigated	DPM	Unmitigated	Unmitigated	Fug PM2.5	Unmitigated
	DPM	EMFAC2021	Emissions	Fug PM2.5	EMFAC2021	Emissions
2023	0.1208	0.0034	0.1242	0.1891	0.0038	0.1929
2024	0.0803	0.0034	0.0837	0.0000	0.0039	0.0039
2025	0.0275	0.0018	0.0293	0.0000	0.0021	0.0021

Year	Mitigated	DPM	Mitigated	Mitigated	Fug PM2.5	Mitigated
	DPM	EMFAC2021	Emissions	Fug PM2.5	EMFAC2021	Emissions
2023	0.0111	0.0034	0.0145	0.0851	0.0038	0.0889
2024	0.0111	0.0034	0.0145	0.0000	0.0039	0.0039
2025	0.0038	0.0018	0.0056	0.0000	0.0021	0.0021

4300 Stevens Creek Blvd, San Jose, CA - Construction Health Impact Modeling Source Parameters for Point Sources Used in Construction Modeling

Source	Stack Height (ft)	Stack Diam (in)	Exhaust Temp (F)	Volume Flow (acfm)	Velocity (ft/min)	Velocity (ft/sec)
Construction Equipment	9.0	2.5	918	632	18540	309.0

Source	Stack Height (m)	Stack Diam (m)	Exhaust Temp (K)	Velocity (ft/sec)
Construction Equipment	2.74	0.064	765.37	94.2

4300 Stevens Creek Blvd, San Jose, CA

DPM Construction Emissions and Modeling Emission Rates

Construction		DPM (ton/year)	Source Type	No. Sources	DPM Emissions			Emissions per Point Source
Year	Activity				(lb/yr)	(lb/hr)	(g/s)	(g/s)
2023	Construction	0.1242	Point	313	248.4	0.07561	9.53E-03	3.04E-05
2024	Construction	0.0837	Point	313	167.3	0.05093	6.42E-03	2.05E-05
2025	Construction	0.0293	Point	313	58.6	0.01784	2.25E-03	7.18E-06
Total		0.2371			474.3	0.1444	0.0182	

Emissions assumed to be evenly distributed over each construction areas

hr/day = 9 (7am - 4pm)
 days/yr = 365
 hours/year = 3285

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction		DPM (ton/year)	Source Type	No. Sources	DPM Emissions			Emissions per Point Source
Year	Activity				(lb/yr)	(lb/hr)	(g/s)	(g/s)
2023	Construction	0.0145	Point	313	29.0	0.00882	1.11E-03	3.55E-06
2024	Construction	0.0145	Point	313	28.9	0.00880	1.11E-03	3.54E-06
2025	Construction	0.0056	Point	313	11.2	0.00342	4.30E-04	1.38E-06
Total		0.0346			69.1	0.0210	0.0027	

Emissions assumed to be evenly distributed over each construction areas

hr/day = 9 (7am - 4pm)
 days/yr = 365
 hours/year = 3285

4300 Stevens Creek Blvd, San Jose, CA

PM2.5 Fugitive Dust Construction Emissions for Modeling

Construction Year	Activity	Area Source	PM2.5 Emissions				Modeled Area (m ²)	DPM Emission Rate g/s/m ²
			(ton/year)	(lb/yr)	(lb/hr)	(g/s)		
2023	Construction	CON_FUG	0.1929	385.9	0.11746	1.48E-02	31958.1	4.63E-07
2024	Construction	CON_FUG	0.0039	7.7	0.00234	2.95E-04	31958.1	9.24E-09
2025	Construction	CON_FUG	0.0021	4.2	0.00127	1.61E-04	31958.1	5.03E-09
Total			0.1989	397.7	0.1211	0.0153		

Emissions assumed to be evenly distributed over each construction areas

hr/day = 9 (7am - 4pm)
 days/yr = 365
 hours/year = 3285

PM2.5 Fugitive Dust Construction Emissions for Modeling - With Mitigation

Construction Year	Activity	Area Source	PM2.5 Emissions				Modeled Area (m ²)	DPM Emission Rate g/s/m ²
			(ton/year)	(lb/yr)	(lb/hr)	(g/s)		
2023	Construction	CON_FUG	0.0889	177.9	0.05414	6.82E-03	31958.1	2.13E-07
2024	Construction	CON_FUG	0.0039	7.7	0.00234	2.95E-04	31958.1	9.24E-09
2025	Construction	CON_FUG	0.0021	4.2	0.00127	1.61E-04	31958.1	5.03E-09
Total			0.0949	189.7	0.0578	0.0073		

Emissions assumed to be evenly distributed over each construction areas

hr/day = 9 (7am - 4pm)
 days/yr = 365
 hours/year = 3285

4300 Stevens Creek Blvd, San Jose, CA - Construction Health Impact Summary

Maximum Impacts at MEI Residential Location - Without Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)		Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu\text{g}/\text{m}^3$)
	Exhaust PM10/DPM ($\mu\text{g}/\text{m}^3$)	Fugitive PM2.5 ($\mu\text{g}/\text{m}^3$)	Infant/Child	Adult		
2024	0.0412	0.0044	6.77	0.12	0.01	0.05
2025	0.0144	0.0024	0.37	0.04	0.003	0.02
Total	-	-	18.03	0.34	-	-
Maximum	0.0612	0.2214	-	-	0.01	0.28

Maximum Impacts at MEI Residential Location - With Mitigation

Emissions Year	Maximum Concentrations		Cancer Risk (per million)		Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu\text{g}/\text{m}^3$)
	Exhaust PM10/DPM ($\mu\text{g}/\text{m}^3$)	Fugitive PM2.5 ($\mu\text{g}/\text{m}^3$)	Infant/Child	Adult		
2024	0.0071	0.0044	1.17	0.02	0.001	0.01
2025	0.0028	0.0024	0.07	0.01	0.001	0.01
Total	-	-	2.51	0.05	-	-
Maximum	0.0071	0.1019	-	-	0.001	0.11

- Tier 4 Interim Engine and BMPs for Mitigation

**4300 Stevens Creek Blvd, San Jose, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height (1st Floor Level)**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Maximum		
			DPM Conc (ug/m ³)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor		Hazard Index	Fugitive PM2.5	Total PM2.5
			Year	Annual			Year	Annual					
0	0.25	-0.25 - 0*	2023	0.0612	10	0.83	2023	0.0612	-	-			
1	1	0 - 1	2023	0.0612	10	10.06	2023	0.0612	1	0.18	0.0122	0.2214	0.2826
2	1	1 - 2	2024	0.0412	10	6.77	2024	0.0412	1	0.12	0.0082	0.0044	0.0457
3	1	2 - 3	2025	0.0144	3	0.37	2025	0.0144	1	0.04	0.0029	0.0024	0.0169
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00			
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00			
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00			
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00			
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00			
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00			
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00			
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00			
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00			
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00			
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00			
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00			
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00			
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00			
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00			
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00			
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00			
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00			
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00			
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00			
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00			
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00			
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00			
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00			
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00			
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00			
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00			
Total Increased Cancer Risk						18.03				0.34			

* Third trimester of pregnancy

**4300 Stevens Creek Blvd, San Jose, CA - Construction Impacts - Without Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 4.5 meter receptor height (2nd Floor Level)**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information		Infant/Child Cancer Risk (per million)	Adult - Exposure Information		Adult Cancer Risk (per million)	Maximum					
			DPM Conc (ug/m3)			Age Sensitivity	Modeled		Sensitivity Factor	Hazard Index	Fugitive PM2.5	Total PM2.5		
			Year	Annual	Factor	Year	Annual							
0	0.25	-0.25 - 0*	2023	0.0609	10	0.83	2023	0.0609	-	-	-	-	-	-
1	1	0 - 1	2023	0.0609	10	10.00	2023	0.0609	1	0.17	0.0122	0.1823	0.2432	
2	1	1 - 2	2024	0.0410	10	6.73	2024	0.0410	1	0.12	0.0082	0.0036	0.0446	
3	1	2 - 3	2025	0.0144	3	0.37	2025	0.0144	1	0.04	0.0029	0.0020	0.0163	
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00				
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00				
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00				
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00				
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00				
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00				
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00				
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00				
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00				
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00				
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00				
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00				
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00				
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00				
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00				
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00				
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00				
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00				
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00				
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00				
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00				
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00				
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00				
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00				
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00				
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00				
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00				
Total Increased Cancer Risk						17.93				0.33				

* Third trimester of pregnancy

**4300 Stevens Creek Blvd, San Jose, CA - Construction Impacts - With Mitigation
Maximum DPM Cancer Risk and PM2.5 Calculations From Construction
Impacts at Off-Site MEI Location - 1.5 meter receptor height (1st Floor Level)**

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Values

Age -> Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
CPF =	1.10E+00	1.10E+00	1.10E+00	1.10E+00
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Infant/Child - Exposure Information			Infant/Child Cancer Risk (per million)	Adult - Exposure Information			Adult Cancer Risk (per million)	Maximum				
			DPM Conc (ug/m ³)		Age Sensitivity Factor		Modeled		Age Sensitivity Factor		DPM Conc (ug/m ³)	Sensitivity Factor	DPM Conc (ug/m ³)	Fugitive PM2.5	Total PM2.5
			Year	Annual			Year	Annual							
0	0.25	-0.25 - 0*	2023	0.0071	10	0.10	2023	0.0071	-	-					
1	1	0 - 1	2023	0.0071	10	1.17	2023	0.0071	1	0.02	0.0014	0.1019	0.1090		
2	1	1 - 2	2024	0.0071	10	1.17	2024	0.0071	1	0.02	0.0014	0.0044	0.0116		
3	1	2 - 3	2025	0.0028	3	0.07	2025	0.0028	1	0.01	0.0006	0.0024	0.0052		
4	1	3 - 4		0.0000	3	0.00		0.0000	1	0.00					
5	1	4 - 5		0.0000	3	0.00		0.0000	1	0.00					
6	1	5 - 6		0.0000	3	0.00		0.0000	1	0.00					
7	1	6 - 7		0.0000	3	0.00		0.0000	1	0.00					
8	1	7 - 8		0.0000	3	0.00		0.0000	1	0.00					
9	1	8 - 9		0.0000	3	0.00		0.0000	1	0.00					
10	1	9 - 10		0.0000	3	0.00		0.0000	1	0.00					
11	1	10 - 11		0.0000	3	0.00		0.0000	1	0.00					
12	1	11 - 12		0.0000	3	0.00		0.0000	1	0.00					
13	1	12 - 13		0.0000	3	0.00		0.0000	1	0.00					
14	1	13 - 14		0.0000	3	0.00		0.0000	1	0.00					
15	1	14 - 15		0.0000	3	0.00		0.0000	1	0.00					
16	1	15 - 16		0.0000	3	0.00		0.0000	1	0.00					
17	1	16-17		0.0000	1	0.00		0.0000	1	0.00					
18	1	17-18		0.0000	1	0.00		0.0000	1	0.00					
19	1	18-19		0.0000	1	0.00		0.0000	1	0.00					
20	1	19-20		0.0000	1	0.00		0.0000	1	0.00					
21	1	20-21		0.0000	1	0.00		0.0000	1	0.00					
22	1	21-22		0.0000	1	0.00		0.0000	1	0.00					
23	1	22-23		0.0000	1	0.00		0.0000	1	0.00					
24	1	23-24		0.0000	1	0.00		0.0000	1	0.00					
25	1	24-25		0.0000	1	0.00		0.0000	1	0.00					
26	1	25-26		0.0000	1	0.00		0.0000	1	0.00					
27	1	26-27		0.0000	1	0.00		0.0000	1	0.00					
28	1	27-28		0.0000	1	0.00		0.0000	1	0.00					
29	1	28-29		0.0000	1	0.00		0.0000	1	0.00					
30	1	29-30		0.0000	1	0.00		0.0000	1	0.00					
Total Increased Cancer Risk						2.51				0.05					

* Third trimester of pregnancy

Attachment 5: Cumulative Community Risk from Existing TAC Sources

CT-EMFAC2017 Emissions Factors for Santa Clara County 2023

File Name: 4300 SCB - Santa Clara (SF) - 2023 - Annual.EF
 CT-EMFAC2017 Version: 1.0.2.27401
 Run Date: 12/3/2021 15:58
 Area: Santa Clara (SF)
 Analysis Year: 2023
 Season: Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.015	0.487	0.513
Truck 2	0.02	0.938	0.047
Non-Truck	0.965	0.014	0.958

Road Type: Major/Collector
 Silt Loading Factor: CARB 0.032 g/m2
 Precipitation Correction: CARB P = 64 days N = 365 days

Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph
PM2.5	0.009229	0.005981	0.004054	0.002896	0.002194	0.001765	0.001511	0.001375	0.001329
TOG	0.195764	0.127928	0.086105	0.061055	0.046181	0.036838	0.030861	0.027137	0.025044
Diesel PM	0.000904	0.000732	0.000563	0.000446	0.000382	0.000353	0.00035	0.00037	0.000411

Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.35761

Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002108

Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016808

Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.014855

=====
 END
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Stevens Creek Blvd Traffic Emissions and Health Risk Calculations

Analysis Year = 2023

Vehicle Type	2019 Caltrans Vehicles (veh/day)	2023 Vehicles (veh/day)
Total	24,585	25,568

Increase From 2019 1.04
Vehicles/Direction **12,784**
 Avg Vehicles/Hour/Direction 533

Traffic Data Year = 2019

Project Traffic Data - Background Plus Project ADT	AADT Total	Total Truck
Kiely Blvd & Stevens Creek Blvd	24,585	863

Percent of Total Vehicles 3.51%
 Traffic Increase per Year (%) = 1.00%

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	55.7	3.4	Varied	12,784	14,432	155,344	2.004E-09	1.478E-09	6.8	3.16
DPM_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	55.7	3.4	Varied	12,784	14,396	154,961	2.004E-09	1.478E-09	6.8	3.16
Total										25,568						

Emission Factors - DPM

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	40	0.00037	0.00035	

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and DPM Emissions - DPM_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.91%	500	2.71E-05	9	6.50%	831	4.27E-05	17	5.58%	713	3.66E-05
2	2.59%	331	1.80E-05	10	7.36%	941	5.11E-05	18	3.28%	419	2.15E-05
3	2.88%	368	2.00E-05	11	6.33%	809	4.39E-05	19	2.36%	301	1.64E-05
4	3.34%	426	2.32E-05	12	6.84%	875	4.75E-05	20	0.92%	118	6.39E-06
5	2.19%	279	1.52E-05	13	6.15%	787	4.27E-05	21	2.99%	382	2.08E-05
6	3.39%	434	2.36E-05	14	6.15%	787	4.27E-05	22	4.14%	529	2.87E-05
7	5.98%	765	4.15E-05	15	5.23%	669	3.63E-05	23	2.47%	316	1.72E-05
8	4.66%	595	3.06E-05	16	3.91%	500	2.71E-05	24	0.86%	110	5.99E-06
Total										12,784	

2023 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.91%	500	2.71E-05	9	6.50%	831	4.26E-05	17	5.58%	713	3.65E-05
2	2.59%	331	1.79E-05	10	7.36%	941	5.10E-05	18	3.28%	419	2.15E-05
3	2.88%	368	1.99E-05	11	6.33%	809	4.38E-05	19	2.36%	301	1.63E-05
4	3.34%	426	2.31E-05	12	6.84%	875	4.74E-05	20	0.92%	118	6.37E-06
5	2.19%	279	1.51E-05	13	6.15%	787	4.26E-05	21	2.99%	382	2.07E-05
6	3.39%	434	2.35E-05	14	6.15%	787	4.26E-05	22	4.14%	529	2.87E-05
7	5.98%	765	4.14E-05	15	5.23%	669	3.62E-05	23	2.47%	316	1.71E-05
8	4.66%	595	3.05E-05	16	3.91%	500	2.71E-05	24	0.86%	110	5.97E-06
Total										12,784	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (m)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
PM25_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	12,784	14,432	155,344	7.448E-09	5.492E-09	2.6	1.21
PM25_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	12,784	14,396	154,961	7.448E-09	5.492E-09	2.6	1.21
Total										25,568						

Emission Factors - PM2.5

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	40	35		
	0.001375	0.001511		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	147	2.97E-05	9	7.11%	909	2.02E-04	17	7.38%	944	2.09E-04
2	0.42%	53	1.08E-05	10	4.39%	562	1.13E-04	18	8.17%	1045	2.32E-04
3	0.41%	52	1.05E-05	11	4.66%	596	1.20E-04	19	5.70%	728	1.47E-04
4	0.26%	34	6.79E-06	12	5.89%	753	1.52E-04	20	4.27%	546	1.10E-04
5	0.50%	64	1.29E-05	13	6.15%	786	1.59E-04	21	3.26%	417	8.41E-05
6	0.90%	116	2.33E-05	14	6.04%	772	1.56E-04	22	3.30%	422	8.51E-05
7	3.79%	485	9.79E-05	15	7.01%	896	1.81E-04	23	2.46%	314	6.35E-05
8	7.76%	992	2.20E-04	16	7.14%	912	1.84E-04	24	1.86%	238	4.81E-05
Total										12,784	

2023 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	147	2.96E-05	9	7.11%	909	2.01E-04	17	7.38%	944	2.09E-04
2	0.42%	53	1.07E-05	10	4.39%	562	1.13E-04	18	8.17%	1045	2.31E-04
3	0.41%	52	1.05E-05	11	4.66%	596	1.20E-04	19	5.70%	728	1.47E-04
4	0.26%	34	6.77E-06	12	5.89%	753	1.52E-04	20	4.27%	546	1.10E-04
5	0.50%	64	1.29E-05	13	6.15%	786	1.58E-04	21	3.26%	417	8.39E-05
6	0.90%	116	2.33E-05	14	6.04%	772	1.55E-04	22	3.30%	422	8.49E-05
7	3.79%	485	9.76E-05	15	7.01%	896	1.80E-04	23	2.46%	314	6.33E-05
8	7.76%	992	2.20E-04	16	7.14%	912	1.84E-04	24	1.86%	238	4.80E-05
Total										12,784	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	
TEXH_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	12,784	14,432	155,344	1.470E-07	1.084E-07	2.6	1.21
TEXH_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	12,784	14,396	154,961	1.470E-07	1.084E-07	2.6	1.21
Total										25,568						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	40	35		
	0.02714	0.03086		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	147	5.86E-04	9	7.11%	909	4.12E-03	17	7.38%	944	4.28E-03
2	0.42%	53	2.13E-04	10	4.39%	562	2.24E-03	18	8.17%	1045	4.73E-03
3	0.41%	52	2.08E-04	11	4.66%	596	2.37E-03	19	5.70%	728	2.90E-03
4	0.26%	34	1.34E-04	12	5.89%	753	3.00E-03	20	4.27%	546	2.18E-03
5	0.50%	64	2.55E-04	13	6.15%	786	3.13E-03	21	3.26%	417	1.66E-03
6	0.90%	116	4.60E-04	14	6.04%	772	3.07E-03	22	3.30%	422	1.68E-03
7	3.79%	485	1.93E-03	15	7.01%	896	3.57E-03	23	2.46%	314	1.25E-03
8	7.76%	992	4.49E-03	16	7.14%	912	3.63E-03	24	1.86%	238	9.49E-04
Total										12,784	

2023 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	147	5.85E-04	9	7.11%	909	4.11E-03	17	7.38%	944	4.27E-03
2	0.42%	53	2.12E-04	10	4.39%	562	2.23E-03	18	8.17%	1045	4.72E-03
3	0.41%	52	2.07E-04	11	4.66%	596	2.37E-03	19	5.70%	728	2.89E-03
4	0.26%	34	1.34E-04	12	5.89%	753	2.99E-03	20	4.27%	546	2.17E-03
5	0.50%	64	2.54E-04	13	6.15%	786	3.12E-03	21	3.26%	417	1.66E-03
6	0.90%	116	4.59E-04	14	6.04%	772	3.07E-03	22	3.30%	422	1.68E-03
7	3.79%	485	1.93E-03	15	7.01%	896	3.56E-03	23	2.46%	314	1.25E-03
8	7.76%	992	4.48E-03	16	7.14%	912	3.62E-03	24	1.86%	238	9.47E-04
Total										12,784	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical Dimension	(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
TEVAP_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	12,784	14,432	155,344	1.839E-07	1.356E-07	2.6	1.21
TEVAP_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	12,784	14,396	154,961	1.839E-07	1.356E-07	2.6	1.21
Total										25,568						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category Travel Speed (mph)	1	2	3	4
	Emissions per Vehicle per Hour (g/hour)	40	35	
Emissions per Vehicle per Mile (g/VMT)	1.35761	1.35761		
	0.03394	0.03879		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	147	7.33E-04	9	7.11%	909	5.18E-03	17	7.38%	944	5.37E-03
2	0.42%	53	2.66E-04	10	4.39%	562	2.80E-03	18	8.17%	1045	5.95E-03
3	0.41%	52	2.60E-04	11	4.66%	596	2.97E-03	19	5.70%	728	3.63E-03
4	0.26%	34	1.68E-04	12	5.89%	753	3.75E-03	20	4.27%	546	2.72E-03
5	0.50%	64	3.19E-04	13	6.15%	786	3.92E-03	21	3.26%	417	2.08E-03
6	0.90%	116	5.76E-04	14	6.04%	772	3.84E-03	22	3.30%	422	2.10E-03
7	3.79%	485	2.42E-03	15	7.01%	896	4.47E-03	23	2.46%	314	1.57E-03
8	7.76%	992	5.65E-03	16	7.14%	912	4.54E-03	24	1.86%	238	1.19E-03
Total										12,784	

2023 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	147	7.32E-04	9	7.11%	909	5.16E-03	17	7.38%	944	5.36E-03
2	0.42%	53	2.65E-04	10	4.39%	562	2.79E-03	18	8.17%	1045	5.93E-03
3	0.41%	52	2.59E-04	11	4.66%	596	2.96E-03	19	5.70%	728	3.62E-03
4	0.26%	34	1.67E-04	12	5.89%	753	3.74E-03	20	4.27%	546	2.71E-03
5	0.50%	64	3.18E-04	13	6.15%	786	3.91E-03	21	3.26%	417	2.07E-03
6	0.90%	116	5.74E-04	14	6.04%	772	3.83E-03	22	3.30%	422	2.10E-03
7	3.79%	485	2.41E-03	15	7.01%	896	4.45E-03	23	2.46%	314	1.56E-03
8	7.76%	992	5.64E-03	16	7.14%	912	4.53E-03	24	1.86%	238	1.18E-03
Total										12,784	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	
FUG_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	12,784	14,432	155,344	1.829E-07	1.349E-07	2.6	1.21
FUG_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	12,784	14,396	154,961	1.829E-07	1.349E-07	2.6	1.21
Total										25,568						

Emission Factors - Fugitive PM2.5

Speed Category Travel Speed (mph)	1	2	3	4
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211	0.00211		
Brake Wear - Emissions per Vehicle (g/VMT)	0.01681	0.01681		
Road Dust - Emissions per Vehicle (g/VMT)	0.01486	0.01486		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03377	0.03377		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	147	7.30E-04	9	7.11%	909	4.51E-03	17	7.38%	944	4.68E-03
2	0.42%	53	2.65E-04	10	4.39%	562	2.78E-03	18	8.17%	1045	5.18E-03
3	0.41%	52	2.58E-04	11	4.66%	596	2.96E-03	19	5.70%	728	3.61E-03
4	0.26%	34	1.67E-04	12	5.89%	753	3.73E-03	20	4.27%	546	2.71E-03
5	0.50%	64	3.17E-04	13	6.15%	786	3.90E-03	21	3.26%	417	2.06E-03
6	0.90%	116	5.73E-04	14	6.04%	772	3.83E-03	22	3.30%	422	2.09E-03
7	3.79%	485	2.40E-03	15	7.01%	896	4.44E-03	23	2.46%	314	1.56E-03
8	7.76%	992	4.92E-03	16	7.14%	912	4.52E-03	24	1.86%	238	1.18E-03
Total										12,784	

2023 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	147	7.28E-04	9	7.11%	909	4.49E-03	17	7.38%	944	4.67E-03
2	0.42%	53	2.64E-04	10	4.39%	562	2.78E-03	18	8.17%	1045	5.17E-03
3	0.41%	52	2.58E-04	11	4.66%	596	2.95E-03	19	5.70%	728	3.60E-03
4	0.26%	34	1.66E-04	12	5.89%	753	3.72E-03	20	4.27%	546	2.70E-03
5	0.50%	64	3.16E-04	13	6.15%	786	3.89E-03	21	3.26%	417	2.06E-03
6	0.90%	116	5.72E-04	14	6.04%	772	3.82E-03	22	3.30%	422	2.08E-03
7	3.79%	485	2.40E-03	15	7.01%	896	4.43E-03	23	2.46%	314	1.55E-03
8	7.76%	992	4.91E-03	16	7.14%	912	4.51E-03	24	1.86%	238	1.18E-03
Total										12,784	

**4300 Stevens Creek Blvd, San Jose - Stevens Creek Blvd Traffic - TACs & PM2.5
 AERMOD Risk Modeling Parameters and Maximum Concentrations
 at Construction MEI Receptor, 1.5m receptor height (1st floor)**

Emission Year 2023
Receptor Information Construction MEI receptor
 Number of Receptors 1
 Receptor Height 1st Floor, 1.5 meters
 Receptor Distances At Construction MEI location

Meteorological Conditions
 BAQMD San Jose Airport Met Data 2013-2017
 Land Use Classification Urban
 Wind Speed Variable
 Wind Direction Variable

Construction MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0004	0.0387	0.0485

Construction MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0484	0.0465	0.0020

**4300 Stevens Creek Blvd, San Jose, CA - Stevens Creek Blvd Cancer Risk & PM2.5
Impacts at Construction MEI - 1.5 meter receptor height (1st floor)
30 Year Residential Exposure**

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age → Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2023	10	0.0004	0.0387	0.0485	0.072	0.036	0.0027	0.11
2	1	1 - 2	2024	10	0.0004	0.0387	0.0485	0.072	0.036	0.0027	0.11
3	1	2 - 3	2025	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
4	1	3 - 4	2026	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
5	1	4 - 5	2027	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
6	1	5 - 6	2028	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
7	1	6 - 7	2029	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
8	1	7 - 8	2030	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
9	1	8 - 9	2031	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
10	1	9 - 10	2032	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
11	1	10 - 11	2033	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
12	1	11 - 12	2034	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
13	1	12 - 13	2035	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
14	1	13 - 14	2036	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
15	1	14 - 15	2037	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
16	1	15 - 16	2038	3	0.0004	0.0387	0.0485	0.011	0.006	0.0004	0.02
17	1	16 - 17	2039	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
18	1	17 - 18	2040	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
19	1	18 - 19	2041	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
20	1	19 - 20	2042	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
21	1	20 - 21	2043	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
22	1	21 - 22	2044	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
23	1	22 - 23	2045	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
24	1	23 - 24	2046	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
25	1	24 - 25	2047	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
26	1	25 - 26	2048	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
27	1	26 - 27	2049	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
28	1	27 - 28	2050	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
29	1	28 - 29	2051	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
30	1	29 - 30	2052	1	0.0004	0.0387	0.0485	0.001	0.001	0.0000	0.00
Total Increased Cancer Risk								0.33	0.164	0.012	0.50

* Third trimester of pregnancy

Maximum
Hazard Index 0.0001
Fugitive PM2.5 0.05
Total PM2.5 0.05

Kiely Blvd Traffic Emissions and Health Risk Calculations

Analysis Year = 2023

Vehicle Type	2019 Caltrans Vehicles (veh/day)	2023 Vehicles (veh/day)
Total	14,225	14,794

Increase From 2019 1.04
Vehicles/Direction 7,397
 Avg Vehicles/Hour/Direction 308

Traffic Data Year = 2019

Project Traffic Data - Background Plus Project ADT	AADT Total	Total Truck
Kiely Blvd & Stevens Creek Blvd	14,225	499

Percent of Total Vehicles 3.51%

Traffic Increase per Year (%) = 1.00%

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	43.7	3.4	Varied	7,397	7,662	82,468	1.410E-09	1.040E-09	6.8	3.16
DPM_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	43.7	3.4	Varied	7,397	7,937	85,435	1.410E-09	1.040E-09	6.8	3.16
										Total	14,794					

Emission Factors - DPM

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.00035	0.00038	

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and DPM Emissions - DPM_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.91%	289	1.01E-05	9	6.50%	481	1.82E-05	17	5.58%	413	1.57E-05
2	2.59%	191	6.71E-06	10	7.36%	544	1.91E-05	18	3.28%	242	9.20E-06
3	2.88%	213	7.46E-06	11	6.33%	468	1.64E-05	19	2.36%	174	6.11E-06
4	3.34%	247	8.65E-06	12	6.84%	506	1.77E-05	20	0.92%	68	2.39E-06
5	2.19%	162	5.67E-06	13	6.15%	455	1.60E-05	21	2.99%	221	7.75E-06
6	3.39%	251	8.80E-06	14	6.15%	455	1.60E-05	22	4.14%	306	1.07E-05
7	5.98%	442	1.55E-05	15	5.23%	387	1.36E-05	23	2.47%	183	6.41E-06
8	4.66%	345	1.31E-05	16	3.91%	289	1.01E-05	24	0.86%	64	2.24E-06
Total										7,397	

2023 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.91%	289	1.05E-05	9	6.50%	481	1.89E-05	17	5.58%	413	1.62E-05
2	2.59%	191	6.95E-06	10	7.36%	544	1.98E-05	18	3.28%	242	9.53E-06
3	2.88%	213	7.72E-06	11	6.33%	468	1.70E-05	19	2.36%	174	6.33E-06
4	3.34%	247	8.96E-06	12	6.84%	506	1.84E-05	20	0.92%	68	2.47E-06
5	2.19%	162	5.87E-06	13	6.15%	455	1.65E-05	21	2.99%	221	8.03E-06
6	3.39%	251	9.11E-06	14	6.15%	455	1.65E-05	22	4.14%	306	1.11E-05
7	5.98%	442	1.61E-05	15	5.23%	387	1.41E-05	23	2.47%	183	6.64E-06
8	4.66%	345	1.35E-05	16	3.91%	289	1.05E-05	24	0.86%	64	2.32E-06
Total										7,397	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (m)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical height (m)	(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
PM25_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,397	7,662	82,468	7.052E-09	5.199E-09	2.6	1.21
PM25_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,397	7,937	85,435	7.052E-09	5.199E-09	2.6	1.21
Total										14,794						

Emission Factors - PM2.5

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.001765	0.002194	

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	
1	1.15%	85	1.49E-05	9	7.11%	526	1.15E-04	17	7.38%	546	1.19E-04	
2	0.42%	31	5.41E-06	10	4.39%	325	5.70E-05	18	8.17%	604	1.32E-04	
3	0.41%	30	5.29E-06	11	4.66%	345	6.05E-05	19	5.70%	421	7.39E-05	
4	0.26%	19	3.41E-06	12	5.89%	436	7.64E-05	20	4.27%	316	5.54E-05	
5	0.50%	37	6.49E-06	13	6.15%	455	7.98E-05	21	3.26%	241	4.23E-05	
6	0.90%	67	1.17E-05	14	6.04%	447	7.83E-05	22	3.30%	244	4.28E-05	
7	3.79%	281	4.92E-05	15	7.01%	519	9.09E-05	23	2.46%	182	3.19E-05	
8	7.76%	574	1.25E-04	16	7.14%	528	9.25E-05	24	1.86%	138	2.42E-05	
Total											7,397	

2023 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	
1	1.15%	85	1.55E-05	9	7.11%	526	1.19E-04	17	7.38%	546	1.23E-04	
2	0.42%	31	5.61E-06	10	4.39%	325	5.90E-05	18	8.17%	604	1.36E-04	
3	0.41%	30	5.48E-06	11	4.66%	345	6.26E-05	19	5.70%	421	7.65E-05	
4	0.26%	19	3.54E-06	12	5.89%	436	7.91E-05	20	4.27%	316	5.74E-05	
5	0.50%	37	6.72E-06	13	6.15%	455	8.26E-05	21	3.26%	241	4.38E-05	
6	0.90%	67	1.21E-05	14	6.04%	447	8.11E-05	22	3.30%	244	4.43E-05	
7	3.79%	281	5.10E-05	15	7.01%	519	9.42E-05	23	2.46%	182	3.30E-05	
8	7.76%	574	1.30E-04	16	7.14%	528	9.58E-05	24	1.86%	138	2.50E-05	
Total											7,397	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical height	(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
TEXH_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,397	7,662	82,468	1.472E-07	1.085E-07	2.6	1.21
TEXH_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,397	7,937	85,435	1.472E-07	1.085E-07	2.6	1.21
Total										14,794						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.03684	0.04618	

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	85	3.12E-04	9	7.11%	526	2.41E-03	17	7.38%	546	2.51E-03
2	0.42%	31	1.13E-04	10	4.39%	325	1.19E-03	18	8.17%	604	2.77E-03
3	0.41%	30	1.10E-04	11	4.66%	345	1.26E-03	19	5.70%	421	1.54E-03
4	0.26%	19	7.12E-05	12	5.89%	436	1.59E-03	20	4.27%	316	1.16E-03
5	0.50%	37	1.35E-04	13	6.15%	455	1.66E-03	21	3.26%	241	8.82E-04
6	0.90%	67	2.45E-04	14	6.04%	447	1.63E-03	22	3.30%	244	8.93E-04
7	3.79%	281	1.03E-03	15	7.01%	519	1.90E-03	23	2.46%	182	6.66E-04
8	7.76%	574	2.63E-03	16	7.14%	528	1.93E-03	24	1.86%	138	5.04E-04
Total										7,397	

2023 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	85	3.23E-04	9	7.11%	526	2.50E-03	17	7.38%	546	2.60E-03
2	0.42%	31	1.17E-04	10	4.39%	325	1.23E-03	18	8.17%	604	2.87E-03
3	0.41%	30	1.14E-04	11	4.66%	345	1.31E-03	19	5.70%	421	1.60E-03
4	0.26%	19	7.38E-05	12	5.89%	436	1.65E-03	20	4.27%	316	1.20E-03
5	0.50%	37	1.40E-04	13	6.15%	455	1.72E-03	21	3.26%	241	9.14E-04
6	0.90%	67	2.54E-04	14	6.04%	447	1.69E-03	22	3.30%	244	9.25E-04
7	3.79%	281	1.06E-03	15	7.01%	519	1.97E-03	23	2.46%	182	6.90E-04
8	7.76%	574	2.73E-03	16	7.14%	528	2.00E-03	24	1.86%	138	5.23E-04
Total										7,397	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	
TEVAP_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,397	7,662	82,468	1.808E-07	1.333E-07	2.6	1.21
TEVAP_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,397	7,937	85,435	1.808E-07	1.333E-07	2.6	1.21
Total										14,794						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category Travel Speed (mph) Emissions per Vehicle per Hour (g/hour) Emissions per Vehicle per Mile (g/VMT)	1	2	3	4
		30	25	
	1.35761	1.35761		
	0.04525	0.05430		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	85	3.83E-04	9	7.11%	526	2.84E-03	17	7.38%	546	2.95E-03
2	0.42%	31	1.39E-04	10	4.39%	325	1.46E-03	18	8.17%	604	3.26E-03
3	0.41%	30	1.36E-04	11	4.66%	345	1.55E-03	19	5.70%	421	1.89E-03
4	0.26%	19	8.75E-05	12	5.89%	436	1.96E-03	20	4.27%	316	1.42E-03
5	0.50%	37	1.66E-04	13	6.15%	455	2.05E-03	21	3.26%	241	1.08E-03
6	0.90%	67	3.01E-04	14	6.04%	447	2.01E-03	22	3.30%	244	1.10E-03
7	3.79%	281	1.26E-03	15	7.01%	519	2.33E-03	23	2.46%	182	8.18E-04
8	7.76%	574	3.10E-03	16	7.14%	528	2.37E-03	24	1.86%	138	6.20E-04
Total										7,397	

2023 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	85	3.97E-04	9	7.11%	526	2.94E-03	17	7.38%	546	3.05E-03
2	0.42%	31	1.44E-04	10	4.39%	325	1.51E-03	18	8.17%	604	3.38E-03
3	0.41%	30	1.40E-04	11	4.66%	345	1.61E-03	19	5.70%	421	1.96E-03
4	0.26%	19	9.06E-05	12	5.89%	436	2.03E-03	20	4.27%	316	1.47E-03
5	0.50%	37	1.72E-04	13	6.15%	455	2.12E-03	21	3.26%	241	1.12E-03
6	0.90%	67	3.11E-04	14	6.04%	447	2.08E-03	22	3.30%	244	1.14E-03
7	3.79%	281	1.31E-03	15	7.01%	519	2.42E-03	23	2.46%	182	8.47E-04
8	7.76%	574	3.21E-03	16	7.14%	528	2.46E-03	24	1.86%	138	6.42E-04
Total										7,397	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
 Year = 2023

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	
FUG_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,397	7,662	82,468	1.349E-07	9.948E-08	2.6	1.21
FUG_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,397	7,937	85,435	1.349E-07	9.948E-08	2.6	1.21
Total										14,794						

Emission Factors - Fugitive PM2.5

Speed Category Travel Speed (mph)	1	2	3	4
	Tire Wear - Emissions per Vehicle (g/VMT)	0.00211	0.00211	
Brake Wear - Emissions per Vehicle (g/VMT)	0.01681	0.01681		
Road Dust - Emissions per Vehicle (g/VMT)	0.01486	0.01486		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03377	0.03377		

Emission Factors from CT-EMFAC2017

2023 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	85	2.86E-04	9	7.11%	526	1.76E-03	17	7.38%	546	1.83E-03
2	0.42%	31	1.04E-04	10	4.39%	325	1.09E-03	18	8.17%	604	2.03E-03
3	0.41%	30	1.01E-04	11	4.66%	345	1.16E-03	19	5.70%	421	1.41E-03
4	0.26%	19	6.53E-05	12	5.89%	436	1.46E-03	20	4.27%	316	1.06E-03
5	0.50%	37	1.24E-04	13	6.15%	455	1.53E-03	21	3.26%	241	8.09E-04
6	0.90%	67	2.24E-04	14	6.04%	447	1.50E-03	22	3.30%	244	8.18E-04
7	3.79%	281	9.41E-04	15	7.01%	519	1.74E-03	23	2.46%	182	6.10E-04
8	7.76%	574	1.93E-03	16	7.14%	528	1.77E-03	24	1.86%	138	4.62E-04
Total										7,397	

2023 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	85	2.96E-04	9	7.11%	526	1.83E-03	17	7.38%	546	1.90E-03
2	0.42%	31	1.07E-04	10	4.39%	325	1.13E-03	18	8.17%	604	2.10E-03
3	0.41%	30	1.05E-04	11	4.66%	345	1.20E-03	19	5.70%	421	1.46E-03
4	0.26%	19	6.76E-05	12	5.89%	436	1.51E-03	20	4.27%	316	1.10E-03
5	0.50%	37	1.29E-04	13	6.15%	455	1.58E-03	21	3.26%	241	8.38E-04
6	0.90%	67	2.32E-04	14	6.04%	447	1.55E-03	22	3.30%	244	8.48E-04
7	3.79%	281	9.75E-04	15	7.01%	519	1.80E-03	23	2.46%	182	6.32E-04
8	7.76%	574	2.00E-03	16	7.14%	528	1.83E-03	24	1.86%	138	4.79E-04
Total										7,397	

**4300 Stevens Creek Blvd, San Jose - Kiely Blvd Traffic - TACs & PM2.5
 AERMOD Risk Modeling Parameters and Maximum Concentrations
 at Construction MEI Receptor, 1.5m receptor height (1st floor)**

Emission Year 2023
Receptor Information Construction MEI receptor
 Number of Receptors 1
 Receptor Height 1st Floor, 1.5 meters
 Receptor Distances At Construction MEI location

Meteorological Conditions
 BAQMD San Jose Airport Met Data 2013-2017
 Land Use Classification Urban
 Wind Speed Variable
 Wind Direction Variable

Construction MEI Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)		
	DPM	Exhaust TOG	Evaporative TOG
2013-2017	0.0001	0.0048	0.0059

Construction MEI PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013-2017	0.0043	0.0041	0.0002

**4300 Stevens Creek Blvd, San Jose, CA - Kiely Blvd Cancer Risk & PM2.5
Impacts at Construction MEI - 1.5 meter receptor height (1st floor)
30 Year Residential Exposure**

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹

ASF = Age sensitivity factor for specified age group

ED = Exposure duration (years)

AT = Averaging time for lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)

DBR = daily breathing rate (L/kg body weight-day)

A = Inhalation absorption factor

EF = Exposure frequency (days/year)

10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age → Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2023	10	0.0001	0.0048	0.0059	0.011	0.005	0.0003	0.02
2	1	1 - 2	2024	10	0.0001	0.0048	0.0059	0.011	0.005	0.0003	0.02
3	1	2 - 3	2025	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
4	1	3 - 4	2026	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
5	1	4 - 5	2027	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
6	1	5 - 6	2028	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
7	1	6 - 7	2029	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
8	1	7 - 8	2030	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
9	1	8 - 9	2031	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
10	1	9 - 10	2032	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
11	1	10 - 11	2033	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
12	1	11 - 12	2034	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
13	1	12 - 13	2035	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
14	1	13 - 14	2036	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
15	1	14 - 15	2037	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
16	1	15 - 16	2038	3	0.0001	0.0048	0.0059	0.002	0.001	0.0001	0.00
17	1	16 - 17	2039	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
18	1	17 - 18	2040	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
19	1	18 - 19	2041	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
20	1	19 - 20	2042	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
21	1	20 - 21	2043	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
22	1	21 - 22	2044	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
23	1	22 - 23	2045	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
24	1	23 - 24	2046	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
25	1	24 - 25	2047	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
26	1	25 - 26	2048	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
27	1	26 - 27	2049	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
28	1	27 - 28	2050	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
29	1	28 - 29	2051	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
30	1	29 - 30	2052	1	0.0001	0.0048	0.0059	0.000	0.000	0.0000	0.00
Total Increased Cancer Risk								0.05	0.021	0.001	0.07

* Third trimester of pregnancy

Maximum
Hazard Index 0.00001
Fugitive PM2.5 0.004
Total PM2.5 0.004

CT-EMFAC2017 Emissions Factors for Santa Clara County 2026

File Name: 4300 SCB - Santa Clara (SF) - 2026 - Annual.EF
 CT-EMFAC2017 Version: 1.0.2.27401
 Run Date: 12/3/2021 15:59
 Area: Santa Clara (SF)
 Analysis Year: 2026
 Season: Annual

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Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.015	0.508	0.492
Truck 2	0.02	0.935	0.049
Non-Truck	0.965	0.015	0.949

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Road Type: Major/Collector
 Silt Loading Factor: CARB 0.032 g/m2
 Precipitation Correction: CARB P = 64 days N = 365 days

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Fleet Average Running Exhaust Emission Factors (grams/veh-mile)

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph
PM2.5	0.008121	0.005263	0.003569	0.002552	0.001935	0.001561	0.001341	0.001228	0.001194
TOG	0.164195	0.107707	0.072399	0.051278	0.038871	0.031092	0.026106	0.02299	0.021228
Diesel PM	0.000735	0.000612	0.000478	0.000385	0.000334	0.000314	0.000317	0.000341	0.000385

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Fleet Average Running Loss Emission Factors (grams/veh-hour)

Pollutant Name	Emission Factor
TOG	1.210741

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Fleet Average Tire Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.002109

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Fleet Average Brake Wear Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.016799

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Fleet Average Road Dust Factors (grams/veh-mile)

Pollutant Name	Emission Factor
PM2.5	0.014818

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END

Stevens Creek Blvd Traffic Emissions and Health Risk Calculations

Analysis Year = **2026**

Vehicle Type	2019 Caltrans Vehicles (veh/day)	2026 Vehicles (veh/day)
Total	24,585	26,306

Increase From 2019 1.07
Vehicles/Direction 13,153
 Avg Vehicles/Hour/Direction 548

Traffic Data Year = **2019**

<i>Project Traffic Data - Background Plus Project ADT</i>	ADT Total	Total Truck
Kiely Blvd & Stevens Creek Blvd	24,585	863

Percent of Total Vehicles 3.51%
 Traffic Increase per Year (%) = 1.00%

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	55.7	3.4	Varied	13,153	14,432	155,344	1.900E-09	1.401E-09	6.8	3.16
DPM_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	55.7	3.4	Varied	13,153	14,396	154,961	1.900E-09	1.401E-09	6.8	3.16
Total										26,306						

Emission Factors - DPM

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	40	0.00034	0.00032	

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and DPM Emissions - DPM_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.98%	523	2.62E-05	9	6.44%	847	3.94E-05	17	5.53%	727	3.38E-05
2	2.67%	351	1.76E-05	10	7.40%	973	4.87E-05	18	3.14%	413	1.92E-05
3	2.84%	374	1.87E-05	11	6.32%	831	4.16E-05	19	2.35%	309	1.54E-05
4	3.30%	433	2.17E-05	12	6.88%	905	4.53E-05	20	0.86%	113	5.67E-06
5	2.16%	284	1.42E-05	13	6.27%	824	4.13E-05	21	3.08%	405	2.03E-05
6	3.30%	433	2.17E-05	14	6.21%	817	4.09E-05	22	4.21%	554	2.77E-05
7	6.03%	793	3.97E-05	15	5.13%	675	3.38E-05	23	2.62%	345	1.73E-05
8	4.56%	600	2.79E-05	16	3.88%	510	2.55E-05	24	0.85%	112	5.61E-06
Total										13,153	

2026 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.98%	523	2.61E-05	9	6.44%	847	3.93E-05	17	5.53%	727	3.37E-05
2	2.67%	351	1.75E-05	10	7.40%	973	4.86E-05	18	3.14%	413	1.92E-05
3	2.84%	374	1.87E-05	11	6.32%	831	4.15E-05	19	2.35%	309	1.54E-05
4	3.30%	433	2.16E-05	12	6.88%	905	4.52E-05	20	0.86%	113	5.65E-06
5	2.16%	284	1.42E-05	13	6.27%	824	4.12E-05	21	3.08%	405	2.02E-05
6	3.30%	433	2.16E-05	14	6.21%	817	4.08E-05	22	4.21%	554	2.77E-05
7	6.03%	793	3.96E-05	15	5.13%	675	3.37E-05	23	2.62%	345	1.72E-05
8	4.56%	600	2.79E-05	16	3.88%	510	2.55E-05	24	0.85%	112	5.60E-06
Total										13,153	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (m)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
PM25_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	13,153	14,432	155,344	6.844E-09	5.046E-09	2.6	1.21
PM25_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	13,153	14,396	154,961	6.844E-09	5.046E-09	2.6	1.21
Total										26,306						

Emission Factors - PM2.5

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
		40	35	
	0.001228	0.001341		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	151	2.72E-05	9	7.11%	935	1.84E-04	17	7.38%	971	1.91E-04
2	0.42%	55	9.97E-06	10	4.39%	577	1.04E-04	18	8.18%	1075	2.12E-04
3	0.41%	53	9.61E-06	11	4.66%	613	1.11E-04	19	5.70%	749	1.35E-04
4	0.26%	34	6.18E-06	12	5.89%	775	1.40E-04	20	4.27%	562	1.01E-04
5	0.50%	66	1.18E-05	13	6.15%	809	1.46E-04	21	3.26%	429	7.72E-05
6	0.90%	119	2.14E-05	14	6.04%	794	1.43E-04	22	3.30%	434	7.82E-05
7	3.79%	498	8.98E-05	15	7.01%	922	1.66E-04	23	2.46%	324	5.84E-05
8	7.76%	1021	2.01E-04	16	7.14%	939	1.69E-04	24	1.87%	246	4.43E-05
Total										13,153	

2026 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	151	2.72E-05	9	7.11%	935	1.84E-04	17	7.38%	971	1.91E-04
2	0.42%	55	9.95E-06	10	4.39%	577	1.04E-04	18	8.18%	1075	2.11E-04
3	0.41%	53	9.59E-06	11	4.66%	613	1.10E-04	19	5.70%	749	1.35E-04
4	0.26%	34	6.17E-06	12	5.89%	775	1.39E-04	20	4.27%	562	1.01E-04
5	0.50%	66	1.18E-05	13	6.15%	809	1.45E-04	21	3.26%	429	7.70E-05
6	0.90%	119	2.14E-05	14	6.04%	794	1.43E-04	22	3.30%	434	7.80E-05
7	3.79%	498	8.96E-05	15	7.01%	922	1.66E-04	23	2.46%	324	5.82E-05
8	7.76%	1021	2.00E-04	16	7.14%	939	1.69E-04	24	1.87%	246	4.41E-05
Total										13,153	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height
TEXH_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	13,153	14,432	155,344	1.281E-07	9.447E-08	2.6	1.21
TEXH_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	13,153	14,396	154,961	1.281E-07	9.447E-08	2.6	1.21
Total										26,306						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
		40	35	
	0.02299	0.02611		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	151	5.10E-04	9	7.11%	935	3.58E-03	17	7.38%	971	3.72E-03
2	0.42%	55	1.87E-04	10	4.39%	577	1.95E-03	18	8.18%	1075	4.12E-03
3	0.41%	53	1.80E-04	11	4.66%	613	2.07E-03	19	5.70%	749	2.53E-03
4	0.26%	34	1.16E-04	12	5.89%	775	2.61E-03	20	4.27%	562	1.90E-03
5	0.50%	66	2.21E-04	13	6.15%	809	2.73E-03	21	3.26%	429	1.45E-03
6	0.90%	119	4.01E-04	14	6.04%	794	2.68E-03	22	3.30%	434	1.46E-03
7	3.79%	498	1.68E-03	15	7.01%	922	3.11E-03	23	2.46%	324	1.09E-03
8	7.76%	1021	3.91E-03	16	7.14%	939	3.17E-03	24	1.87%	246	8.29E-04
Total										13,153	

2026 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	151	5.09E-04	9	7.11%	935	3.58E-03	17	7.38%	971	3.71E-03
2	0.42%	55	1.86E-04	10	4.39%	577	1.94E-03	18	8.18%	1075	4.11E-03
3	0.41%	53	1.79E-04	11	4.66%	613	2.06E-03	19	5.70%	749	2.52E-03
4	0.26%	34	1.15E-04	12	5.89%	775	2.61E-03	20	4.27%	562	1.89E-03
5	0.50%	66	2.21E-04	13	6.15%	809	2.72E-03	21	3.26%	429	1.44E-03
6	0.90%	119	4.00E-04	14	6.04%	794	2.67E-03	22	3.30%	434	1.46E-03
7	3.79%	498	1.68E-03	15	7.01%	922	3.10E-03	23	2.46%	324	1.09E-03
8	7.76%	1021	3.90E-03	16	7.14%	939	3.16E-03	24	1.87%	246	8.27E-04
Total										13,153	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				Initial Vertical Dimension	(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		
TEVAP_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	13,153	14,432	155,344	1.687E-07	1.244E-07	2.6	1.21
TEVAP_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	13,153	14,396	154,961	1.687E-07	1.244E-07	2.6	1.21
Total										26,306						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category Travel Speed (mph)	1	2	3	4
	Emissions per Vehicle per Hour (g/hour)	1.21074	35	
Emissions per Vehicle per Mile (g/VMT)	0.03027	0.03459		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	151	6.72E-04	9	7.11%	935	4.75E-03	17	7.38%	971	4.93E-03
2	0.42%	55	2.46E-04	10	4.39%	577	2.56E-03	18	8.18%	1075	5.46E-03
3	0.41%	53	2.37E-04	11	4.66%	613	2.72E-03	19	5.70%	749	3.33E-03
4	0.26%	34	1.52E-04	12	5.89%	775	3.44E-03	20	4.27%	562	2.50E-03
5	0.50%	66	2.91E-04	13	6.15%	809	3.60E-03	21	3.26%	429	1.90E-03
6	0.90%	119	5.28E-04	14	6.04%	794	3.53E-03	22	3.30%	434	1.93E-03
7	3.79%	498	2.21E-03	15	7.01%	922	4.10E-03	23	2.46%	324	1.44E-03
8	7.76%	1021	5.18E-03	16	7.14%	939	4.17E-03	24	1.87%	246	1.09E-03
Total										13,153	

2026 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	151	6.70E-04	9	7.11%	935	4.74E-03	17	7.38%	971	4.92E-03
2	0.42%	55	2.45E-04	10	4.39%	577	2.56E-03	18	8.18%	1075	5.45E-03
3	0.41%	53	2.36E-04	11	4.66%	613	2.72E-03	19	5.70%	749	3.32E-03
4	0.26%	34	1.52E-04	12	5.89%	775	3.43E-03	20	4.27%	562	2.49E-03
5	0.50%	66	2.91E-04	13	6.15%	809	3.59E-03	21	3.26%	429	1.90E-03
6	0.90%	119	5.27E-04	14	6.04%	794	3.52E-03	22	3.30%	434	1.92E-03
7	3.79%	498	2.21E-03	15	7.01%	922	4.09E-03	23	2.46%	324	1.44E-03
8	7.76%	1021	5.17E-03	16	7.14%	939	4.16E-03	24	1.87%	246	1.09E-03
Total										13,153	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Steven Creek Blvd
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	
FUG_EB_SCB	Steven Creek Blvd Eastbound	EB	3	850.3	0.53	17.0	56	1.3	Varied	13,153	14,432	155,344	1.880E-07	1.386E-07	2.6	1.21
FUG_WB_SCB	Steven Creek Blvd Westbound	WB	3	848.2	0.53	17.0	56	1.3	Varied	13,153	14,396	154,961	1.880E-07	1.386E-07	2.6	1.21
Total										26,306						

Emission Factors - Fugitive PM2.5

Speed Category Travel Speed (mph)	1	2	3	4
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211	0.00211		
Brake Wear - Emissions per Vehicle (g/VMT)	0.01680	0.01680		
Road Dust - Emissions per Vehicle (g/VMT)	0.01482	0.01482		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03373	0.03373		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_EB_SCB

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	151	7.48E-04	9	7.11%	935	4.63E-03	17	7.38%	971	4.81E-03
2	0.42%	55	2.74E-04	10	4.39%	577	2.86E-03	18	8.18%	1075	5.32E-03
3	0.41%	53	2.64E-04	11	4.66%	613	3.04E-03	19	5.70%	749	3.71E-03
4	0.26%	34	1.70E-04	12	5.89%	775	3.83E-03	20	4.27%	562	2.78E-03
5	0.50%	66	3.25E-04	13	6.15%	809	4.01E-03	21	3.26%	429	2.12E-03
6	0.90%	119	5.89E-04	14	6.04%	794	3.93E-03	22	3.30%	434	2.15E-03
7	3.79%	498	2.47E-03	15	7.01%	922	4.57E-03	23	2.46%	324	1.60E-03
8	7.76%	1021	5.05E-03	16	7.14%	939	4.65E-03	24	1.87%	246	1.22E-03
Total										13,153	

2026 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_WB_SCB

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	151	7.47E-04	9	7.11%	935	4.62E-03	17	7.38%	971	4.80E-03
2	0.42%	55	2.73E-04	10	4.39%	577	2.85E-03	18	8.18%	1075	5.31E-03
3	0.41%	53	2.63E-04	11	4.66%	613	3.03E-03	19	5.70%	749	3.70E-03
4	0.26%	34	1.69E-04	12	5.89%	775	3.82E-03	20	4.27%	562	2.77E-03
5	0.50%	66	3.24E-04	13	6.15%	809	4.00E-03	21	3.26%	429	2.12E-03
6	0.90%	119	5.87E-04	14	6.04%	794	3.92E-03	22	3.30%	434	2.14E-03
7	3.79%	498	2.46E-03	15	7.01%	922	4.55E-03	23	2.46%	324	1.60E-03
8	7.76%	1021	5.04E-03	16	7.14%	939	4.64E-03	24	1.87%	246	1.21E-03
Total										13,153	

4300 Stevens Creek Blvd, San Jose - Stevens Creek Blvd Traffic - TACs & PM2.5

AERMOD Risk Modeling Parameters and Maximum Concentrations

On-Site 1st & 2nd Levels of Residential Receptors

- Building A at 4m (2nd Fl) and 7.6m (3rd Fl) receptor heights
- Buildings B & C at 7.6m (3rd Fl) and 11m (4th Fl) receptor heights

<u>Emission Year</u>	2026
<u>Receptor Information</u>	Maximum On-Site Receptor
Number of Receptors	278
Receptor Height	1st & 2nd Level of Residential Receptors
Receptor Distances	7 meter grid spacing in residential areas

Meteorological Conditions

BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0012	0.1053	0.1389	1st Level of Res Recepts
2013-2017	0.0010	0.0749	0.0988	2nd Level of Res Recepts

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.1547	0.1491	0.0056	1st Level of Res Recepts
2013-2017	0.1100	0.1061	0.0040	2nd Level of Res Recepts

4300 Stevens Creek Blvd, San Jose, CA - Stevens Creek Blvd Cancer Risk & PM2.5
Impacts at On-Site 1 Level of Residential Receptors - Bld A at 4m (2nd Fl), Bld B & C at 7.6m (3rd Fl) receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age → Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2026	10	0.0012	0.1053	0.1389	0.197	0.099	0.0077	0.30
2	1	1 - 2	2027	10	0.0012	0.1053	0.1389	0.197	0.099	0.0077	0.30
3	1	2 - 3	2028	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
4	1	3 - 4	2029	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
5	1	4 - 5	2030	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
6	1	5 - 6	2031	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
7	1	6 - 7	2032	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
8	1	7 - 8	2033	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
9	1	8 - 9	2034	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
10	1	9 - 10	2035	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
11	1	10 - 11	2036	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
12	1	11 - 12	2037	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
13	1	12 - 13	2038	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
14	1	13 - 14	2039	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
15	1	14 - 15	2040	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
16	1	15 - 16	2041	3	0.0012	0.1053	0.1389	0.031	0.016	0.0012	0.05
17	1	16 - 17	2042	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
18	1	17 - 18	2043	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
19	1	18 - 19	2044	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
20	1	19 - 20	2045	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
21	1	20 - 21	2046	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
22	1	21 - 22	2047	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
23	1	22 - 23	2048	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
24	1	23 - 24	2049	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
25	1	24 - 25	2050	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
26	1	25 - 26	2051	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
27	1	26 - 27	2052	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
28	1	27 - 28	2053	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
29	1	28 - 29	2054	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
30	1	29 - 30	2055	1	0.0012	0.1053	0.1389	0.003	0.002	0.0001	0.01
Total Increased Cancer Risk								0.89	0.447	0.035	1.38

* Third trimester of pregnancy

Maximum
 Hazard Index 0.0002
 Fugitive PM2.5 0.15
 Total PM2.5 0.15

**4300 Stevens Creek Blvd, San Jose, CA - Stevens Creek Blvd Cancer Risk & PM2.5
Impacts at On-Site 2 Level of Residential Receptors - Bld A at 7.6m (3rd Fl), Bld B & C at 11m (4th Fl) receptor heights
30 Year Residential Exposure**

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age → Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
0	0.25	-0.25 - 0*	2026	10	0.0010	0.0749	0.0988	0.013	0.006	0.0005	0.02
1	1	0 - 1	2026	10	0.0010	0.0749	0.0988	0.156	0.070	0.0055	0.23
2	1	1 - 2	2027	10	0.0010	0.0749	0.0988	0.156	0.070	0.0055	0.23
3	1	2 - 3	2028	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
4	1	3 - 4	2029	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
5	1	4 - 5	2030	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
6	1	5 - 6	2031	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
7	1	6 - 7	2032	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
8	1	7 - 8	2033	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
9	1	8 - 9	2034	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
10	1	9 - 10	2035	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
11	1	10 - 11	2036	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
12	1	11 - 12	2037	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
13	1	12 - 13	2038	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
14	1	13 - 14	2039	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
15	1	14 - 15	2040	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
16	1	15 - 16	2041	3	0.0010	0.0749	0.0988	0.025	0.011	0.0009	0.04
17	1	16 - 17	2042	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
18	1	17 - 18	2043	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
19	1	18 - 19	2044	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
20	1	19 - 20	2045	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
21	1	20 - 21	2046	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
22	1	21 - 22	2047	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
23	1	22 - 23	2048	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
24	1	23 - 24	2049	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
25	1	24 - 25	2050	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
26	1	25 - 26	2051	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
27	1	26 - 27	2052	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
28	1	27 - 28	2053	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
29	1	28 - 29	2054	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
30	1	29 - 30	2055	1	0.0010	0.0749	0.0988	0.003	0.001	0.0001	0.00
Total Increased Cancer Risk								0.71	0.318	0.025	1.05

* Third trimester of pregnancy

Maximum
 Hazard Index 0.0002
 Fugitive PM2.5 0.11
 Total PM2.5 0.11

Kiely Blvd Traffic Emissions and Health Risk Calculations

Analysis Year = 2026

Vehicle Type	2019 Caltrans Vehicles (veh/day)	2026 Vehicles (veh/day)
Total	14,225	15,221

Increase From 2019 1.07
Vehicles/Direction 7,610
 Avg Vehicles/Hour/Direction 317

Traffic Data Year = 2019

Project Traffic Data - Background Plus Project ADT	AADT Total	Total Truck
Kiely Blvd & Stevens Creek Blvd	14,225	499

Percent of Total Vehicles 3.51%

Traffic Increase per Year (%) = 1.00%

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
DPM_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	43.7	3.4	Varied	7,610	7,662	82,468	1.291E-09	9.517E-10	6.8	3.16
DPM_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	43.7	3.4	Varied	7,610	7,937	85,435	1.291E-09	9.517E-10	6.8	3.16
Total										15,221						

Emission Factors - DPM

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.00031	0.00033	

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and DPM Emissions - DPM_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.98%	303	9.44E-06	9	6.44%	490	1.63E-05	17	5.53%	421	1.40E-05
2	2.67%	203	6.34E-06	10	7.40%	563	1.76E-05	18	3.14%	239	7.93E-06
3	2.84%	216	6.74E-06	11	6.32%	481	1.50E-05	19	2.35%	179	5.57E-06
4	3.30%	251	7.82E-06	12	6.88%	524	1.63E-05	20	0.86%	66	2.04E-06
5	2.16%	164	5.12E-06	13	6.27%	477	1.49E-05	21	3.08%	234	7.30E-06
6	3.30%	251	7.82E-06	14	6.21%	473	1.47E-05	22	4.21%	321	1.00E-05
7	6.03%	459	1.43E-05	15	5.13%	390	1.22E-05	23	2.62%	200	6.22E-06
8	4.56%	347	1.15E-05	16	3.88%	295	9.21E-06	24	0.85%	65	2.02E-06
Total										7,610	

2026 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.98%	303	9.78E-06	9	6.44%	490	1.68E-05	17	5.53%	421	1.45E-05
2	2.67%	203	6.57E-06	10	7.40%	563	1.82E-05	18	3.14%	239	8.22E-06
3	2.84%	216	6.98E-06	11	6.32%	481	1.55E-05	19	2.35%	179	5.77E-06
4	3.30%	251	8.10E-06	12	6.88%	524	1.69E-05	20	0.86%	66	2.12E-06
5	2.16%	164	5.31E-06	13	6.27%	477	1.54E-05	21	3.08%	234	7.57E-06
6	3.30%	251	8.10E-06	14	6.21%	473	1.53E-05	22	4.21%	321	1.04E-05
7	6.03%	459	1.48E-05	15	5.13%	390	1.26E-05	23	2.62%	200	6.45E-06
8	4.56%	347	1.19E-05	16	3.88%	295	9.54E-06	24	0.85%	65	2.10E-06
Total										7,610	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (m)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area				(Sigma z) Initial Vertical Dimension	
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)		Initial Vertical height (m)
PM25_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,610	7,662	82,468	6.417E-09	4.731E-09	2.6	1.21
PM25_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,610	7,937	85,435	6.417E-09	4.731E-09	2.6	1.21
Total										15,221						

Emission Factors - PM2.5

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.001561	0.001935	

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	87	1.36E-05	9	7.11%	541	1.04E-04	17	7.38%	562	1.08E-04
2	0.42%	32	4.96E-06	10	4.39%	334	5.18E-05	18	8.18%	622	1.20E-04
3	0.41%	31	4.78E-06	11	4.66%	355	5.50E-05	19	5.70%	434	6.72E-05
4	0.26%	20	3.08E-06	12	5.89%	448	6.95E-05	20	4.27%	325	5.04E-05
5	0.50%	38	5.88E-06	13	6.15%	468	7.26E-05	21	3.26%	248	3.84E-05
6	0.90%	69	1.07E-05	14	6.04%	459	7.12E-05	22	3.30%	251	3.89E-05
7	3.79%	288	4.47E-05	15	7.01%	534	8.27E-05	23	2.46%	187	2.91E-05
8	7.76%	591	1.14E-04	16	7.14%	543	8.42E-05	24	1.87%	142	2.20E-05
Total										7,610	

2026 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	87	1.41E-05	9	7.11%	541	1.08E-04	17	7.38%	562	1.12E-04
2	0.42%	32	5.14E-06	10	4.39%	334	5.36E-05	18	8.18%	622	1.24E-04
3	0.41%	31	4.95E-06	11	4.66%	355	5.70E-05	19	5.70%	434	6.96E-05
4	0.26%	20	3.19E-06	12	5.89%	448	7.20E-05	20	4.27%	325	5.22E-05
5	0.50%	38	6.09E-06	13	6.15%	468	7.52E-05	21	3.26%	248	3.98E-05
6	0.90%	69	1.10E-05	14	6.04%	459	7.38E-05	22	3.30%	251	4.03E-05
7	3.79%	288	4.63E-05	15	7.01%	534	8.57E-05	23	2.46%	187	3.01E-05
8	7.76%	591	1.18E-04	16	7.14%	543	8.73E-05	24	1.87%	142	2.28E-05
Total										7,610	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	
TEXH_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,610	7,662	82,468	1.278E-07	9.423E-08	2.6	1.21
TEXH_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,610	7,937	85,435	1.278E-07	9.423E-08	2.6	1.21
Total										15,221						

Emission Factors - TOG Exhaust

Speed Category Travel Speed (mph) Emissions per Vehicle (g/VMT)	1	2	3	4
	30	0.03109	0.03887	

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	87	2.70E-04	9	7.11%	541	2.09E-03	17	7.38%	562	2.17E-03
2	0.42%	32	9.88E-05	10	4.39%	334	1.03E-03	18	8.18%	622	2.40E-03
3	0.41%	31	9.53E-05	11	4.66%	355	1.10E-03	19	5.70%	434	1.34E-03
4	0.26%	20	6.13E-05	12	5.89%	448	1.38E-03	20	4.27%	325	1.00E-03
5	0.50%	38	1.17E-04	13	6.15%	468	1.45E-03	21	3.26%	248	7.66E-04
6	0.90%	69	2.12E-04	14	6.04%	459	1.42E-03	22	3.30%	251	7.76E-04
7	3.79%	288	8.90E-04	15	7.01%	534	1.65E-03	23	2.46%	187	5.79E-04
8	7.76%	591	2.28E-03	16	7.14%	543	1.68E-03	24	1.87%	142	4.39E-04
Total										7,610	

2026 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	87	2.80E-04	9	7.11%	541	2.16E-03	17	7.38%	562	2.25E-03
2	0.42%	32	1.02E-04	10	4.39%	334	1.07E-03	18	8.18%	622	2.49E-03
3	0.41%	31	9.87E-05	11	4.66%	355	1.14E-03	19	5.70%	434	1.39E-03
4	0.26%	20	6.35E-05	12	5.89%	448	1.43E-03	20	4.27%	325	1.04E-03
5	0.50%	38	1.21E-04	13	6.15%	468	1.50E-03	21	3.26%	248	7.93E-04
6	0.90%	69	2.20E-04	14	6.04%	459	1.47E-03	22	3.30%	251	8.03E-04
7	3.79%	288	9.22E-04	15	7.01%	534	1.71E-03	23	2.46%	187	6.00E-04
8	7.76%	591	2.36E-03	16	7.14%	543	1.74E-03	24	1.87%	142	4.55E-04
Total										7,610	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height	
TEVAP_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,610	7,662	82,468	1.659E-07	1.223E-07	2.6	1.21
TEVAP_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,610	7,937	85,435	1.659E-07	1.223E-07	2.6	1.21
Total										15,221						

Emission Factors - PM2.5 - Evaporative TOG

Speed Category Travel Speed (mph) Emissions per Vehicle per Hour (g/hour) Emissions per Vehicle per Mile (g/VMT)	1	2	3	4
		30	25	
	1.21074	1.21074		
	0.04036	0.04843		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	87	3.51E-04	9	7.11%	541	2.60E-03	17	7.38%	562	2.70E-03
2	0.42%	32	1.28E-04	10	4.39%	334	1.34E-03	18	8.18%	622	2.99E-03
3	0.41%	31	1.24E-04	11	4.66%	355	1.42E-03	19	5.70%	434	1.74E-03
4	0.26%	20	7.95E-05	12	5.89%	448	1.80E-03	20	4.27%	325	1.30E-03
5	0.50%	38	1.52E-04	13	6.15%	468	1.88E-03	21	3.26%	248	9.94E-04
6	0.90%	69	2.76E-04	14	6.04%	459	1.84E-03	22	3.30%	251	1.01E-03
7	3.79%	288	1.16E-03	15	7.01%	534	2.14E-03	23	2.46%	187	7.51E-04
8	7.76%	591	2.84E-03	16	7.14%	543	2.18E-03	24	1.87%	142	5.70E-04
Total										7,610	

2026 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	87	3.63E-04	9	7.11%	541	2.70E-03	17	7.38%	562	2.80E-03
2	0.42%	32	1.33E-04	10	4.39%	334	1.39E-03	18	8.18%	622	3.10E-03
3	0.41%	31	1.28E-04	11	4.66%	355	1.47E-03	19	5.70%	434	1.80E-03
4	0.26%	20	8.24E-05	12	5.89%	448	1.86E-03	20	4.27%	325	1.35E-03
5	0.50%	38	1.58E-04	13	6.15%	468	1.94E-03	21	3.26%	248	1.03E-03
6	0.90%	69	2.86E-04	14	6.04%	459	1.91E-03	22	3.30%	251	1.04E-03
7	3.79%	288	1.20E-03	15	7.01%	534	2.22E-03	23	2.46%	187	7.78E-04
8	7.76%	591	2.94E-03	16	7.14%	543	2.26E-03	24	1.87%	142	5.90E-04
Total										7,610	

4300 Stevens Creek Blvd, San Jose - Offsite Residential Roadway Modeling
 Cumulative Operation - Kiely Blvd
 Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions
 Year = 2026

Road Link	Description	Direction	No. Lanes	Link Length (m)	Link Length (mi)	Link Width (m)	Link Width (ft)	Release Height (m)	Average Speed (mph)	Average Vehicles per Day	Line Area					(Sigma z) Initial Vertical Dimension
											Area (sq m)	Area (sq ft)	Emission (g/s/m2)	Emission (lb/hr/ft2)	Initial Vertical height (m)	
FUG_NB_KIE	Kiely Blvd Northbound	NB	2	575.4	0.36	13.3	44	1.3	Varied	7,610	7,662	82,468	1.386E-07	1.022E-07	2.6	1.21
FUG_SB_KIE	Kiely Blvd Southbound	SB	2	596.1	0.37	13.3	44	1.3	Varied	7,610	7,937	85,435	1.386E-07	1.022E-07	2.6	1.21
Total										15,221						

Emission Factors - Fugitive PM2.5

Speed Category Travel Speed (mph)	1	2	3	4
	Tire Wear - Emissions per Vehicle (g/VMT)	0.00211	0.00211	
Brake Wear - Emissions per Vehicle (g/VMT)	0.01680	0.01680		
Road Dust - Emissions per Vehicle (g/VMT)	0.01482	0.01482		
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.03373	0.03373		

Emission Factors from CT-EMFAC2017

2026 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB_KIE

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	87	2.93E-04	9	7.11%	541	1.81E-03	17	7.38%	562	1.88E-03
2	0.42%	32	1.07E-04	10	4.39%	334	1.12E-03	18	8.18%	622	2.08E-03
3	0.41%	31	1.03E-04	11	4.66%	355	1.19E-03	19	5.70%	434	1.45E-03
4	0.26%	20	6.65E-05	12	5.89%	448	1.50E-03	20	4.27%	325	1.09E-03
5	0.50%	38	1.27E-04	13	6.15%	468	1.57E-03	21	3.26%	248	8.31E-04
6	0.90%	69	2.30E-04	14	6.04%	459	1.54E-03	22	3.30%	251	8.41E-04
7	3.79%	288	9.65E-04	15	7.01%	534	1.79E-03	23	2.46%	187	6.28E-04
8	7.76%	591	1.98E-03	16	7.14%	543	1.82E-03	24	1.87%	142	4.76E-04
Total										7,610	

2026 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB_KIE

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	87	3.04E-04	9	7.11%	541	1.88E-03	17	7.38%	562	1.95E-03
2	0.42%	32	1.11E-04	10	4.39%	334	1.16E-03	18	8.18%	622	2.16E-03
3	0.41%	31	1.07E-04	11	4.66%	355	1.23E-03	19	5.70%	434	1.50E-03
4	0.26%	20	6.89E-05	12	5.89%	448	1.56E-03	20	4.27%	325	1.13E-03
5	0.50%	38	1.32E-04	13	6.15%	468	1.62E-03	21	3.26%	248	8.60E-04
6	0.90%	69	2.39E-04	14	6.04%	459	1.59E-03	22	3.30%	251	8.72E-04
7	3.79%	288	1.00E-03	15	7.01%	534	1.85E-03	23	2.46%	187	6.50E-04
8	7.76%	591	2.05E-03	16	7.14%	543	1.89E-03	24	1.87%	142	4.93E-04
Total										7,610	

4300 Stevens Creek Blvd, San Jose - Kiely Blvd Traffic - TACs & PM2.5

AERMOD Risk Modeling Parameters and Maximum Concentrations

On-Site 1st & 2nd Levels of Residential Receptors

- Building A at 4m (2nd Fl) and 7.6m (3rd Fl) receptor heights
- Buildings B & C at 7.6m (3rd Fl) and 11m (4th Fl) receptor heights

<u>Emission Year</u>	2026
<u>Receptor Information</u>	Maximum On-Site Receptor
Number of Receptors	278
Receptor Height	1st & 2nd Level of Residential Receptors
Receptor Distances	7 meter grid spacing in residential areas

Meteorological Conditions

BAQMD San Jose Airport Met Data	2013-2017
Land Use Classification	Urban
Wind Speed	Variable
Wind Direction	Variable

On-Site Cancer Risk Maximum Concentrations

Meteorological Data Years	Concentration (µg/m3)			
	DPM	Exhaust TOG	Evaporative TOG	
2013-2017	0.0002	0.0151	0.0193	1st Level of Res Recept
2013-2017	0.0002	0.0121	0.0155	2nd Level of Res Recept

On-Site PM2.5 Maximum Concentrations

Meteorological Data Years	PM2.5 Concentration (µg/m3)			
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5	
2013-2017	0.0158	0.0151	0.0008	1st Level of Res Recept
2013-2017	0.0127	0.0121	0.0006	2nd Level of Res Recept

4300 Stevens Creek Blvd, San Jose, CA - Kiely Blvd Cancer Risk & PM2.5
Impacts at On-Site 1 Level of Residential Receptors - Bld A at 4m (2nd Fl), Bld B & C at 7.6m (3rd Fl) receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Parameter	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2026	10	0.0002	0.0151	0.0193	0.034	0.014	0.0011	0.05
2	1	1 - 2	2027	10	0.0002	0.0151	0.0193	0.034	0.014	0.0011	0.05
3	1	2 - 3	2028	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
4	1	3 - 4	2029	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
5	1	4 - 5	2030	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
6	1	5 - 6	2031	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
7	1	6 - 7	2032	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
8	1	7 - 8	2033	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
9	1	8 - 9	2034	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
10	1	9 - 10	2035	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
11	1	10 - 11	2036	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
12	1	11 - 12	2037	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
13	1	12 - 13	2038	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
14	1	13 - 14	2039	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
15	1	14 - 15	2040	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
16	1	15 - 16	2041	3	0.0002	0.0151	0.0193	0.005	0.002	0.0002	0.01
17	1	16-17	2042	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
18	1	17-18	2043	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
19	1	18-19	2044	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
20	1	19-20	2045	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
21	1	20-21	2046	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
22	1	21-22	2047	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
23	1	22-23	2048	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
24	1	23-24	2049	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
25	1	24-25	2050	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
26	1	25-26	2051	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
27	1	26-27	2052	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
28	1	27-28	2053	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
29	1	28-29	2054	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
30	1	29-30	2055	1	0.0002	0.0151	0.0193	0.001	0.000	0.0000	0.00
Total Increased Cancer Risk								0.16	0.064	0.005	0.23

* Third trimester of pregnancy

Maximum
 Hazard Index 0.00004
 Fugitive PM2.5 0.02
 Total PM2.5 0.02

4300 Stevens Creek Blvd, San Jose, CA - Kiely Blvd Cancer Risk & PM2.5
Impacts at On-Site 2 Level of Residential Receptors - Bld A at 7.6m (3rd Fl), Bld B & C at 11m (4th Fl) receptor heights
30 Year Residential Exposure

Cancer Risk Calculation Method

Cancer Risk (per million) = CPF x Inhalation Dose x ASF x ED/AT x FAH x 1.0E6

Where: CPF = Cancer potency factor (mg/kg-day)⁻¹
 ASF = Age sensitivity factor for specified age group
 ED = Exposure duration (years)
 AT = Averaging time for lifetime cancer risk (years)
 FAH = Fraction of time spent at home (unitless)

Inhalation Dose = C_{air} x DBR x A x (EF/365) x 10⁻⁶

Where: C_{air} = concentration in air (µg/m³)
 DBR = daily breathing rate (L/kg body weight-day)
 A = Inhalation absorption factor
 EF = Exposure frequency (days/year)
 10⁻⁶ = Conversion factor

Cancer Potency Factors (mg/kg-day)⁻¹

TAC	CPF
DPM	1.10E+00
Vehicle TOG Exhaust	6.28E-03
Vehicle TOG Evaporative	3.70E-04

Values

Age →	Infant/Child			Adult
	3rd Trimester	0 - 2	2 - 16	16 - 30
Parameter				
ASF =	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

* 95th percentile breathing rates for infants and 80th percentile for children and adults

Construction Cancer Risk by Year - Maximum Impact Receptor Location

Exposure Year	Maximum - Exposure Information				Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
	Exposure Duration (years)	Age	Year	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	
1	1	0 - 1	2026	10	0.0002	0.0121	0.0155	0.028	0.011	0.0009	0.04
2	1	1 - 2	2027	10	0.0002	0.0121	0.0155	0.028	0.011	0.0009	0.04
3	1	2 - 3	2028	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
4	1	3 - 4	2029	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
5	1	4 - 5	2030	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
6	1	5 - 6	2031	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
7	1	6 - 7	2032	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
8	1	7 - 8	2033	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
9	1	8 - 9	2034	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
10	1	9 - 10	2035	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
11	1	10 - 11	2036	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
12	1	11 - 12	2037	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
13	1	12 - 13	2038	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
14	1	13 - 14	2039	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
15	1	14 - 15	2040	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
16	1	15 - 16	2041	3	0.0002	0.0121	0.0155	0.004	0.002	0.0001	0.01
17	1	16-17	2042	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
18	1	17-18	2043	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
19	1	18-19	2044	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
20	1	19-20	2045	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
21	1	20-21	2046	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
22	1	21-22	2047	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
23	1	22-23	2048	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
24	1	23-24	2049	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
25	1	24-25	2050	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
26	1	25-26	2051	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
27	1	26-27	2052	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
28	1	27-28	2053	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
29	1	28-29	2054	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
30	1	29-30	2055	1	0.0002	0.0121	0.0155	0.000	0.000	0.0000	0.00
Total Increased Cancer Risk								0.13	0.052	0.004	0.18

* Third trimester of pregnancy

Maximum
 Hazard Index 0.00003
 Fugitive PM2.5 0.01
 Total PM2.5 0.01



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Risk & Hazard Stationary Source Inquiry Form

This form is required when users request stationary source data from BAAQMD

This form is to be used with the BAAQMD's Google Earth stationary source screening tables.

[Click here for guidance on conducting risk & hazard screening, including roadways & freeways, refer to the District's Risk & Hazard Analysis flow chart.](#)

[Click here for District's Recommended Methods for Screening and Modeling Local Risks and Hazards document.](#)

Table A: Requester Contact Information

Date of Request	11/12/2021
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	cdivine@illingworthrodkin.com
Project Name	4300 Stevens Creek Blvd
Address	4300 Stevens Creek Blvd
City	San Jose
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Mixed-Use
Project Size (# of units or building square feet)	580 du, 250 room Hotel
Comments:	

For Air District assistance, the following steps must be completed:

1. Complete all the contact and project information requested in **Table A**. Incomplete forms will not be processed. Please include a project site map.
2. Download and install the free program Google Earth, <http://www.google.com/earth/download/ge/>, and then download the county specific Google Earth stationary source application files from the District's website, <http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx>. The small points on the map represent stationary sources permitted by the District (Map A on right). These permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc. Click on a point to view the source's Information Table, including the name, location, and preliminary estimated cancer risk, hazard index, and PM2.5 concentration.
3. Find the project site in Google Earth by inputting the site's address in the Google Earth search box.
4. Identify stationary sources within at least a 1000ft radius of project site. Verify that the location of the source on the map matches with the source's address in the Information Table, by using the Google Earth address search box to confirm the source's address location. Please report any mapping errors to the District.
5. List the stationary source information in **Table B** -ive section only.
6. Note that a small percentage of the stationary sources have Health Risk Screening Assessment (HRSA) data INSTEAD of screening level data. These sources will be noted by an asterisk next to the Plant Name (Map B on right). If HRSA values are presented, these values have already been modeled and cannot be adjusted further.
7. Email this completed form to District staff. District staff will provide the most recent risk, hazard, and PM2.5 data that are available for the source(s). If this information or data are not available, source emissions data will be provided. Staff will respond to inquiries within three weeks.

Note that a public records request received for the same stationary source information will cancel the processing of your SSIF request.

Submit forms, maps, and questions to Matthew Hanson at 415-749-8733, or mhanson@baaqmd.gov

Table B: Google Earth data

Distance from Receptor (feet) or MEI ¹	Plant No.	Facility Name	Address	Cancer Risk ²	Hazard Risk ²	PM _{2.5} ²	Source No. ³	Type of Source ⁴	Fuel Code ⁵	Status/Comments	Construction MEI			
											Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
+1000	112372	Stevens Creek Union	4185 Stevens Creek Blvd	18.80	0.08	-		Gas Dispensing Facility		2018 Dataset	0.01	0.28	0.001	#VALUE!

Footnotes:

1. Maximally exposed individual
2. These Cancer Risk, Hazard Index, and PM2.5 columns represent the values in the Google Earth Plant Information Table.
3. Each plant may have multiple permits and sources.
4. Permitted sources include diesel back-up generators, gas stations, dry cleaners, boilers, printers, auto spray booths, etc.
5. Fuel codes: 98 = diesel, 189 = Natural Gas.
6. If a Health Risk Screening Assessment (HRSA) was completed for the source, the application number will be listed here.
7. The date that the HRSA was completed.
8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
 - a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
 - b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less.
 - c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
 - d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect the risk from the phase out.
 - e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Multiplier worksheet.
 - f. Unless otherwise noted, exempt sources are considered insignificant. See BAAQMD Reg 2 Rule 1 for a list of exempt sources.
 - g. This spray booth is considered to be insignificant.

Date last updated:

03/13/2018

Project Site

Distance from Receptor (feet) or MEI ¹	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
700	112372	0.03	0.50	0.002	#VALUE!

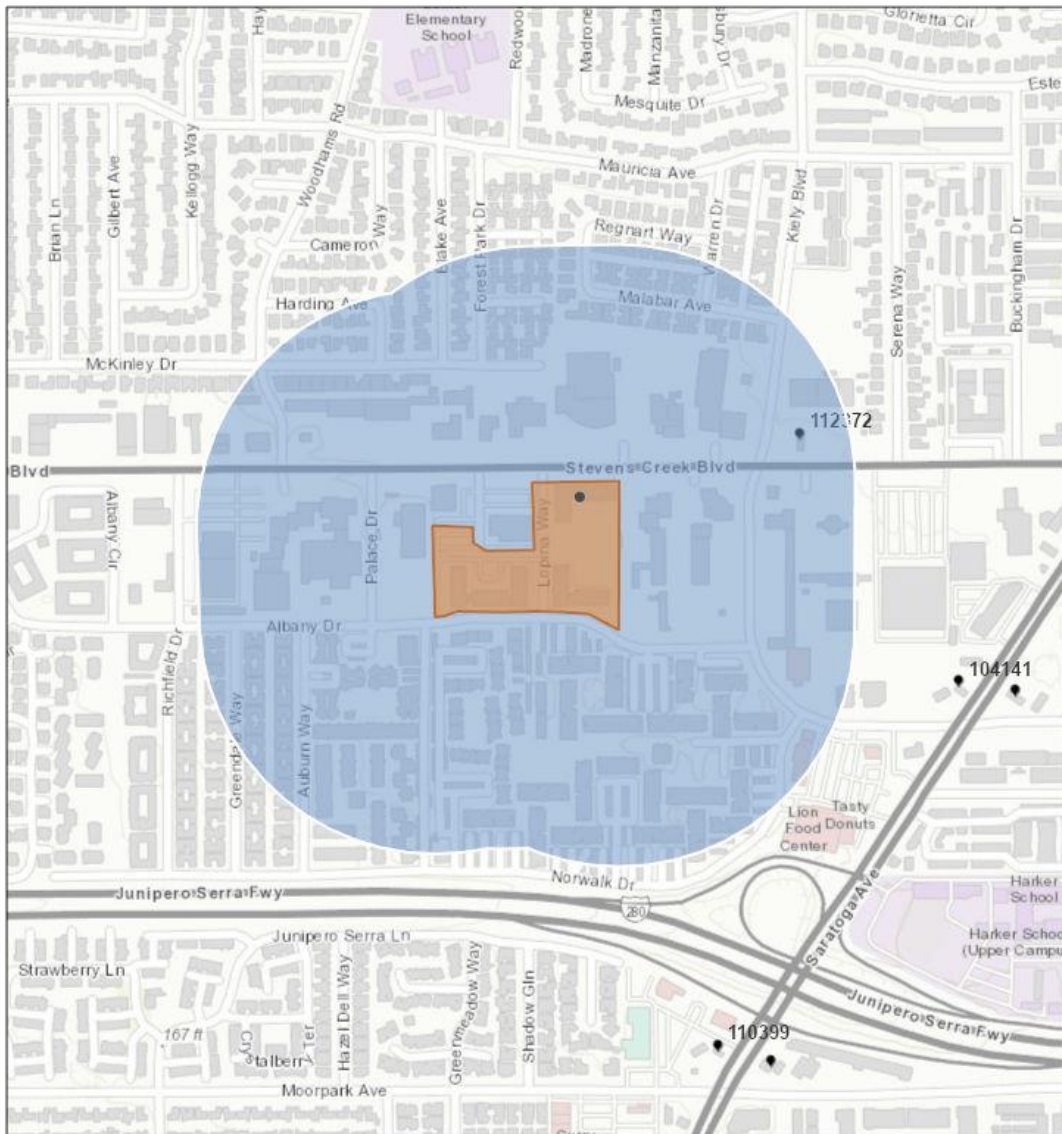


Stationary Source Risk & Hazards Screening Report

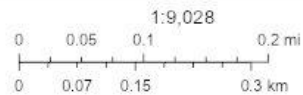
Area of Interest (AOI) Information

Area : 6,170,941.35 ft²

Nov 12 2021 15:00:24 Pacific Standard Time



● Permitted Facilities 2018



City of San Jose, County of Santa Clara, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA

Summary

Name	Count	Area(ft ²)	Length(ft)
Permitted Facilities 2018	1	N/A	N/A

Permitted Facilities 2018

#	FACID	Name	Address	City	St
1	112372	Stevens Creek Union	4185 Stevens Creek Blvd	Santa Clara	CA

#	Zip	County	Cancer	Hazard	PM_25	Type	Count
1	95051	Santa Clara	18.800	0.080	0.000	Gas Dispensing Facility	1

Note: The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted.

The screening level map is not recommended for evaluating sensitive land uses such as schools, senior centers, day cares, and health facilities.

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