Appendix A

Air Quality Assessment

1347 E. JULIAN STREET, 1325 E. JULIAN STREET, 1298 TRIPP AVENUE MIXED-USE PROJECTS AIR QUALITY ASSESSMENT

San José, California

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Introduction

The purpose of this report is to address air quality and health risk impacts associated with the proposed projects located at 1347 E. Julian Street, 1325 E. Julian Street, and 1298 Tripp Avenue in San Jose, California. The air quality impacts from this project would be associated with the demolition of the existing land uses, construction of the new buildings and infrastructure, and operation of the projects. Air pollutant and GHG emissions associated with construction and operation of the projects were predicted 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

There are three separate components of this Project being proposed in close proximity to each other in the Five Wounds Urban Village Plan:

- 1347 E. Julian Street – The 0.5-acre mixed-use component proposes to construct a six-story, 44,605 square-foot (sf) residential building with 45 dwelling units and 2,454-sf of commercial space on the first floor. The Project also includes an at grade 3,112-sf parking garage with 5 spaces and a 5,889-sf parking lot with 16 spaces.
- 1325 E. Julian Street – The approximately 3-acre mixed-use component proposes to construct four, 10-story buildings with a shared basement garage. There would be 533,537-sf of residential space with a total of 633 units. The below-grade parking garage would be 90,512-sf with 174 parking spaces and the parking lot would be 1,458-sf with 8 spaces. One of the buildings would include a 11,437-sf commercial space.
- 1298 Tripp Avenue – The 1.49-acre mixed-use component would demolish the existing residential buildings and construct two six-story buildings with 235 residential units totaling 206,018-sf. It also includes a 821-sf commercial space and a shared 44,101-sf below-grade parking garage with 90 parking spaces.

Each component would be constructed at different times. 1347 E. Julian Street would be constructed first with construction proposed to start in October 2024 and end in September 2025. 1325 E. Julian Street would be constructed next with construction proposed to start in September 2025 and end in May 2028. 1298 Tripp Avenue construction would be last, with it proposed to start in June 2027, and all exterior construction is expected to conclude in July 2028. The construction schedule shows a hiatus before interior construction starts in early February 2029, and all interior work would conclude by early October 2029.

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

[1] Bay Area Air Quality Management District, *2022 CEQA Air Quality Guidelines*, April 2023.

Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (PM_{10}), and fine particulate matter ($PM_{2.5}$).

Air Pollutants of Concern

High ozone concentrations in the air basin 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 ozone. Controlling the emissions of these precursor pollutants is the focus of the Bay Area's attempts to reduce ambient ozone concentrations. The highest ozone concentrations in the Bay Area occur in the eastern and southern inland valleys that are downwind of air pollutant sources. High ozone concentrations aggravate respiratory and cardiovascular diseases, reduced lung function, and increase coughing and chest discomfort.

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

Toxic Air Contaminants

Toxic air contaminants (TAC) are a broad class of compounds known to cause morbidity or mortality (usually because they cause cancer). 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 of TACs can result in adverse health effects, they 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 from diesel exhaust exposure a complicated 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 and incorporated into BAAQMD's current CEQA guidance.[2]

[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.

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, children are the most sensitive receptors, since they are more susceptible to cancer causing TACs. Therefore, new and/or existing residential locations are assumed to include infants and small children. There are residences located adjacent to each of the Project sites and an elementary school to the northwest.

Near 1347 E. Julian Street, there are residences immediately adjacent to the northeast and an elementary school, Rocketship Discovery Prep, located about 50 to 60 feet northwest. Commercial and light industrial uses are located generally to the south. An abandoned rail line and commercial/industrial strip are located to the west.

Near 1325 E. Julian Street, there are residences across West Court to the northeast and residences immediately to the north. Commercial and light industrial uses are located generally to the south. The proposed 1347 E. Julian residential component of the project would be located immediately to the west.

The 1298 Tripp Avenue site is bordered by residences immediately to the south and then across Tripp Avenue and N. 26th Street. There are commercial/light industrial uses to the east and several schools about 600 feet away: San Jose Head Start, Ace Inspire Academy, and Sunrise Middle School.

Regulatory Setting

Federal Regulations

The United States Environmental Protection Agency (EPA) sets nationwide emission standards (NAAQS) and 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.

In the past twenty years, 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 ($PM_{2.5}$) 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 current standards limit the amount of sulfur allowed in diesel fuel to 15 parts per million by weight (ppmw). Ultra-low sulfur diesel (ULSD), as it is referred to, is required for use by all diesel 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

The California Air Resources Board (CARB) has set statewide ambient air quality standards (CAAQS) and emission standards for on-road and off-road mobile sources that are more stringent than those adopted by the EPA. Several of these regulatory programs affect medium and heavy-duty diesel trucks that represent the bulk of DPM emissions from California highways. These regulations include the solid waste collection vehicle (SWCV) rule, in-use public and utility fleets, and the heavy-duty diesel truck and bus regulations. In 2008, CARB approved a regulation to reduce emissions of DPM and NO_X from on-road heavy-duty diesel fueled vehicles.[4] The regulation requires affected vehicles to meet specific performance requirements between 2014 and 2023, with all affected diesel vehicles required to have 2010 model-year engines or equivalent by 2023. These requirements have been phased in over the compliance period and depend on the model year of the vehicle.

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 DPM 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 the Federal off-road equipment engine emission limits for new vehicles, has significantly reduced emissions of DPM and NO_X.

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*[5]. 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

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

[4] Available online: http://www.arb.ca.gov/msprog/onrdiesel/onrdiesel.htm. Accessed: November 21, 2014.

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

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 emission standards for new diesel engines, as well as adoption of regulations for ULSD fuel in California.

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 the 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 and California Ambient Air Quality Standards. 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.[6] 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 has been 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 has been used to develop emission reduction activities 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. Seven areas have been identified by BAAQMD as impacted communities. They include Eastern San Francisco, Richmond/San Pablo, Western Alameda, San José, Vallejo, Concord, and Pittsburgh/Antioch. The project site is within the BAAQMD CARE 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 score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.[7] The BAAQMD has identified several overburdened areas within the air

[6] See BAAQMD: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program.
[7] See BAAQMD: https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofoverburdenedcommunities-pdf.pdf?la=en.

district's boundaries. The project site is within a BAAQMD overburdened area as identified by BAAQMD as the Project site is scored at the 72nd percentile on CalEnviroScreen.[8]

BAAQMD CEQA Air Quality Guidelines

In June 2010, BAAQMD adopted thresholds of significance to assist in the review of projects under CEQA. In 2023, the BAAQMD revised the *California Environmental Quality Act* (*CEQA) Air Quality Guidelines* that included the original significance thresholds to assist in the evaluation of air quality impacts of projects and plans proposed within the Bay Area. The thresholds contained in this CEQA guidance are designed to establish the level at which BAAQMD believed air pollution emissions would cause significant environmental impacts under CEQA.

The updated 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 include assessment methodologies for air toxins, odors, and GHG emissions. The current BAAQMD guidelines and thresholds were used in this analysis and are summarized in Table 1.[9] Air quality impacts and community health risks are considered potentially significant if they exceed these thresholds.

[8] OEHAA, CalEnviroScreen 4.0 Maps
https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/CalEnviroScreen-4_0/
[9] Bay Area Air Quality Management District, *2022 CEQA Air Quality Guidelines*, April 2023.

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 (PM_{10}/$PM_{2.5}$)	Best Management Practices (BMPs)*		Not Applicable	
Health Risks and Hazards	**Single Sources/Individual Projects**		**Combined Sources (Cumulative from all sources within 1000-foot zone of influence)**	
Excess Cancer Risk	>10 in a million	OR Compliance with Qualified Community Risk Reduction Plan	>100 in a million	OR Compliance with Qualified Community Risk Reduction Plan
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, NOx = 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.

* BAAQMD strongly recommends implementing all feasible fugitive dust management practices especially when construction projects are located near sensitive communities, including schools, residential areas, or other sensitive land uses.

Source: Bay Area Air Quality Management District, 2022

The BAAQMD recommends all projects include a "basic" set of best management practices (BMPs) to manage fugitive dust and consider impacts from dust (i.e., fugitive PM_{10} and $PM_{2.5}$) to be less than significant if BMPs are implemented. The project would be required to implement the following BMPs recommended by BAAQMD, which have been adopted by the City of San Jose as Standard Permit Conditions, during all phases of construction to reduce dust and other particulate matter emissions.

Basic Best Management Practices / Standard Permit Conditions: **Include measures to control dust and exhaust 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. The contractor shall implement the following BMPs 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. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.

7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.

8. Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.

9. Publicly visible signs shall be posted with the telephone number and name of the 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 General Air Pollution Complaints number shall also be visible to ensure compliance with applicable regulations.

BAAQMD strongly encourages enhanced BMPs for construction sites near schools, residential areas, or other sensitive land uses. Enhanced measures include:

- Limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities.
- Install wind breaks (e.g., trees, fences) on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.
- Plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than one percent.
- Minimize the amount of excavated material or waste materials stored at the site.
- Hydroseed or apply non-toxic soil stabilizers to construction areas, including previously graded areas, that are inactive for at least 10 calendar days.

<u>San José Envision 2040 General Plan</u>

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 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 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-10.3 Promote the expansion and improvement of public transportation services and facilities, where appropriate, to both encourage energy conservation and reduce air pollution.

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.

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 TACs and $PM_{2.5}$, 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 – 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.

AIR QUALITY IMPACTS AND MITIGATION MEASURES

Impact AIR-1: 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 O_3 and $PM_{2.5}$ under both the NAAQS and the CAAQS. The area is also considered non-attainment for PM_{10} under the CAAQS, but not the NAAQS. The area has attained both the NAAQS and CAAQS for carbon monoxide (CO). As part of an effort to attain and maintain the NAAQS and CAAQS for O_3, $PM_{2.5}$ and PM_{10}, the BAAQMD has established thresholds of significance for these air pollutants and their precursors. These thresholds are for O_3 precursor pollutants (ROG and NOx), PM_{10}, and $PM_{2.5}$ and apply to both construction period and operational period impacts.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2022.1.1 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions. The project land use types and size, and anticipated construction schedule were input to CalEEMod. The CalEEMod model output along with construction inputs are included in *Attachment 1*.

CalEEMod Inputs

Land Use Inputs

The Project's three components would be constructed individually at different times. Separate CalEEMod runs were developed for each component, with the specific land uses for each one entered into CalEEMod as described in Table 2.

Table 2. Construction Land Uses Entered into CalEEMod

Project Land Uses	Size	Units	Square Feet	Acreage
1347 E. Julian Street (2024-2025)				
Apartments Mid Rise	45	Dwelling Unit	44,605	0.52
Strip Mall	2.45	1,000-ft	2,454	
Parking Lot	16	Parking Spaces	5,889	
Unenclosed Parking Structure with Elevator	5	Parking Spaces	3,112	
1325 E. Julian Street (2025-2028)				
Apartments Mid Rise	633	Dwelling Unit	533,537	3
Strip Mall	11.44	1,000-sf	11,437	
Parking Lot	8	Parking Spaces	1,458	
Enclosed Parking Structure with Elevator	174	Parking Spaces	90,512	
1298 Tripp Avenue (2027-2029)				
Apartments Mid Rise	235	Dwelling Unit	206,018	1.49
Strip Mall	0.82	1,000-sf	821	
Enclosed Parking Structure with Elevator	90	Parking Spaces	44,101	

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 project-specific construction information provided by the project applicant (included in *Attachment 1*).

The construction equipment worksheet provided by the applicant included the schedule for each phase, projected equipment usage, and estimated truck hauling volumes. Within each phase, the quantity of equipment to be used along with the average hours per day and total number of workdays were provided. Since different equipment would have different estimates of the working days per phase, the equipment usage hours per day for each phase was computed by dividing the total number of hours that the equipment would be used by the number of days in that phase. The construction schedule included the following build-out timeline:

- 1347 E. Julian Street would begin construction in October 2024 and built out over a period of approximately 12 months, or 262 construction workdays.
- 1325 E. Julian Street would begin September 2025 and built out over a period of approximately 33 months, or 697 construction workdays.
- 1298 Tripp Avenue would begin in June 2027 and built out over a period of approximately 21 months, or 465 construction workdays.

The earliest full calendar year of operation following complete construction of all three Project components was assumed to be 2030, although as components are finished, they may begin to operate.

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 amount of demolition material to be exported, soil imported and/or exported to the site, and the estimate of concrete and asphalt truck trips to and from the site. 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 were estimated by CalEEMod using the provided demolition and grading volumes provided. The number of concrete and asphalt total round haul trips were provided for the project and converted to daily one-way trips, assuming two trips per delivery. These values are shown in the project construction equipment worksheets included in *Attachment 1*.

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 3 shows the annualized average daily construction emissions of ROG, NO_X, PM_{10} exhaust, and $PM_{2.5}$ exhaust

during construction of the project. As indicated in Table 3, predicted annualized project construction emissions would not exceed the BAAQMD significance thresholds during any year of construction.

Table 3. Construction Period Emissions

Year	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Construction Emissions Per Year (Tons)				
2024 (1347 E. Julian St)	0.02	0.19	0.01	0.01
2025 (1347 E Julian and 1325 E. Julian St)	0.37	0.52	0.01	0.01
2026 (1325 E. Julian St)	0.16	0.74	0.01	0.01
2027 (1325 E. Julian St and 1298 Tripp Ave)	3.41	2.11	0.05	0.04
2028 (1325 E. Julian St and 1298 Tripp Ave)	0.89	0.59	0.01	0.01
2029 (1298 Tripp Ave)	1.48	0.13	<0.01	<0.01
Average Daily Construction Emissions Per Year (pounds/day)				
2024 (66 construction workdays)	0.61	5.88	0.26	0.24
2025 (261 construction workdays)	2.82	3.97	0.11	0.10
2026 (261 construction workdays)	1.22	5.68	0.11	0.10
2027 (261 construction workdays)	26.13	16.14	0.35	0.33
2028 (131 construction workdays)	13.57	9.06	0.19	0.16
2029 (181 construction workdays)	16.30	1.45	0.02	0.02
Total Average Daily (1,161 days)	10.89	7.38	0.17	0.15
BAAQMD Thresholds (pounds per day)	*54* lbs./day	*54* lbs./day	*82* lbs./day	*54* lbs./day
Exceed Threshold?	No	No	No	No

Construction activities, particularly during site preparation and grading, would temporarily generate fugitive dust in the form of PM_{10} 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 recommends all projects include a "basic" set of best management practices (BMPs) to manage fugitive dust and considers impacts from dust (i.e., fugitive PM_{10} and $PM_{2.5}$) to be less-than-significant if BMPs are implemented to reduce these emissions. San Jose General Policy MS-10.1 specifies that projects should assess projected air emissions from new developments in conformance with the BAAQMD CEQA Guidelines and relative to state and federal standards and identify and implement feasible air emission reduction measures requires construction projects to implement these measures. The project would be required to implement the following BMPs recommended by BAAQMD, which have been adopted by the City as Standard Permit Conditions, during all phases of construction to reduce dust and other particulate matter emissions.

Standard Permit Conditions / Basic BMPs

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. The contractor shall implement the following BMPs 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. All excavation, grading, and/or demolition activities shall be suspended when average wind speeds exceed 20 mph.

7. All trucks and equipment, including their tires, shall be washed off prior to leaving the site.

8. Unpaved roads providing access to sites located 100 feet or further from a paved road shall be treated with a 6- to 12-inch layer of compacted layer of wood chips, mulch, or gravel.

9. Publicly visible signs shall be posted with the telephone number and name of the 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 General Air Pollution Complaints number shall also be visible to ensure compliance with applicable regulations.

For this analysis, both the basic and enhanced BMPs were required as the unmitigated fugitive dust emissions from project construction sources were at the BAAQMD single-source threshold for the health risk analysis, as shown later in Table 5. *Mitigation Measure AQ-1 would implement BAAQMD's enhanced best management practices.*

Mitigation Measure AQ-1: **Enhanced BMPs – Include measures to control dust and exhaust during construction.**

Enhanced measures include:

- Limit the simultaneous occurrence of excavation, grading, and ground-disturbing construction activities.
- Install wind breaks (e.g., trees, fences) on the windward side(s) of actively disturbed areas of construction. Wind breaks should have at maximum 50 percent air porosity.
- Plant vegetative ground cover (e.g., fast-germinating native grass seed) in disturbed areas as soon as possible and watered appropriately until vegetation is established.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways from sites with a slope greater than one percent.

- Minimize the amount of excavated material or waste materials stored at the site.
- Hydroseed or apply non-toxic soil stabilizers to construction areas, including previously graded areas, that are inactive for at least 10 calendar days.

Effectiveness of Mitigation Measure AQ-1

The measures above are consistent with BAAQMD-recommended basic and enhanced BMPs for reducing fugitive dust contained in the BAAQMD CEQA Air Quality Guidelines.

Operational Period Emissions

Operational air emissions from the Projects would be generated primarily from autos driven by future residents, employees, and customers. Evaporative emissions from architectural coatings and household products (classified as consumer products) are typical emissions from these types of uses. CalEEMod was used to estimate emissions from the operation of each proposed Project component assuming full build-out.

CalEEMod Inputs

Land Uses

Each Project component was modeled separately for operational emissions based on the first calendar year that full operation could occur. Then a combined run was done which included all of the Project components.

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 calendar year of operation would be 2026 for 1347 E. Julian Street, 2029 for 1325 E. Julian Street, and 2030 for 1298 Tripp Avenue. All project components are assumed to be operating in 2030 when full build-out is complete, which is the full operation scenario.

Traffic Information

The project-specific daily trip generation rates provided by the traffic consultant for each Project component was entered into the models, as described below.[10] The traffic trip forecasts include adjustments for internal trip capture, vehicle mode share, component-specific trip reduction, pass-by trips for retail uses, and existing conditions. These adjustments for trip reduction were accounted in the trip rate inputs to CalEEMod. Therefore, the 1347 E. Julian Street component would produce approximately 350 daily trips (gross) or 233 daily net daily trips after adjustments, the 1325 E. Julian Street component would produce approximately 3,638 daily trips (gross) or

[10] Hexagon Transportation Consultants, Inc., *Five Wounds Residential Mixed-Use Developments Local Transportation Analysis,* May 10, 2023.

2,620 daily net daily trips after adjustments, and the 1298 Tripp Avenue component would produce approximately 1,175 daily trips (gross) or 582 daily net daily trips after adjustments.

The forecasted daily trips were assumed to be weekday 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 component-specific daily weekday trip rate. The default trip lengths and trip types specified by CalEEMod were used.

Energy

An emission factor of 178 pounds of CO_2 per megawatt of electricity produced was entered into each CalEEMod, which is based on San José Clean Energy's (SJCE) 2020 emissions rate.[11] It should be noted that per Climate Smart San José and San José's Greenhouse Gas Reduction Strategy, SJCE's goal is to provide 100-percent carbon-free electricity prior to 2030.[12]

CalEEMod includes the 2019 Title 24 Building Standards. However, 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.[13] This ordinance applies to any new construction starting August 1, 2021. Natural gas use for the residential land use was set to zero and reassigned to electricity use in CalEEMod.

Wood-Burning Devices

CalEEMod default inputs assume new residential construction would include woodburning fireplaces and stoves. The project would not include wood-burning devices, as these devices are prohibited by BAAQMD Regulation 6, Rule 3.[14] Therefore, the number of woodstoves and fireplaces in CalEEMod were set to zero.

Other Inputs

Default model assumptions for emissions associated with solid waste generation use were applied to the project. Wastewater treatment was changed to 100 percent aerobic conditions to represent the use of city sewer services (i.e., project would not send wastewater to septic tanks or facultative lagoons).

Existing Uses

The 1298 Tripp Avenue property is currently occupied by multi-family residences. A CalEEMod model run was developed to compute emissions from the existing land use in 2023. Inputs for the

[11] San Jose Clean Energy Website, Standard GreenSource service. Web: https://sanjosecleanenergy.org/commercial-rates/
[12] City of San José, 2020. "2030 Greenhouse Gas Reduction Strategy", August. Web: https://www.sanjoseca.gov/home/showpublisheddocument/63667/637347412207870000
[13] City of San José, 2020. "Expand Natural Gas Ban", December. Web: https://www.sanjoseca.gov/Home/Components/News/News/2210/4699
[14] Bay Area Air Quality Management District, https://www.baaqmd.gov/~/media/dotgov/files/rules/regulation-6-rule-3/documents/20191120_r0603_final-pdf.pdf?la=en

existing conditions scenario included a "Low-Rise Apartment" with an estimated 50 dwelling units. The existing trip generation rates and other inputs were applied to the existing modeling in the same manner described for the proposed project.

Summary of Computed Operational Period Emissions

Annual emissions were predicted using CalEEMod and daily emissions were calculated assuming 365 days of operation. Table 4a, 4b, and 4c shows unmitigated net average daily operational emissions of ROG, NO_X, total PM_{10}, and total $PM_{2.5}$ during the first calendar year that each project component would be completed and operating. Table 4d shows unmitigated net average daily operational emissions of ROG, NO_X, total PM_{10}, and total $PM_{2.5}$ during the first calendar year that all the project components are completed and operating. None of the unmitigated operational period emissions exceed the BAAQMD significance thresholds.

Table 4a. Operational Period Emissions - 1347 E. Julian Street

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2026 Annual Project Operational Emissions (*tons/year*)	0.35	0.08	0.07	0.01
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?	*No*	*No*	*No*	*No*
2026 Daily Project Operational Emissions (*pounds/day*)[1]	1.94	0.45	0.37	0.07
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?	*No*	*No*	*No*	*No*
Notes: [1]Assumes 365-day operation.				

Table 4b. Operational Period Emissions - 1325 E. Julian Street

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2029 Annual Project Operational Emissions (*tons/year*)	3.98	0.78	0.72	0.14
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?	*No*	*No*	*No*	*No*
2029 Daily Project Operational Emissions (*pounds/day*)[1]	21.84	4.26	3.95	0.75
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?	*No*	*No*	*No*	*No*
Notes: [1]Assumes 365-day operation.				

Table 4c. Operational Period Emissions – 1298 Tripp Avenue

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2030 Annual Project Operational Emissions (*tons/year*)	1.46	0.25	0.61	0.16
2023 Existing Use Emissions (*tons/year*)	0.46	0.19	0.09	0.02
Net Annual Emissions (*tons/year*)	1.00	0.06	0.52	0.14
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?	*No*	*No*	*No*	*No*
2030 Daily Project Operational Emissions (*pounds/day*)[1]	5.48	0.35	2.84	0.75
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?	*No*	*No*	*No*	*No*
Notes: [1]Assumes 365-day operation.				

Table 4d. Operational Period Emissions – First Year of Full Build-Out Operation

Scenario	ROG	NOx	PM_{10}	$PM_{2.5}$
2030 Annual Projects Operational Emissions (*tons/year*)	5.73	1.06	2.61	0.67
2023 Existing Use Emissions (*tons/year*)	0.46	0.19	0.09	0.02
Net Annual Emissions (*tons/year*)	5.27	0.87	2.52	0.65
BAAQMD Thresholds (tons /year)	*10 tons*	*10 tons*	*15 tons*	*10 tons*
Exceed Threshold?	*No*	*No*	*No*	*No*
2030 Daily Projects Operational Emissions (*pounds/day*)[1]	28.90	4.76	13.79	3.58
BAAQMD Thresholds (pounds/day)	*54* lbs.	*54* lbs.	*82* lbs.	*54* lbs.
Exceed Threshold?	*No*	*No*	*No*	*No*
Notes: [1]Assumes 365-day operation.				

Impact AIR-2: Expose sensitive receptors to substantial pollutant concentrations?

Project impacts related to increased health 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., 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 (i.e., generators) but would generate some traffic consisting of mostly light-duty gasoline-powered 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 existing sources of TACs was 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.

Health Risk Methodology

Health risk impacts were addressed 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. These sources include on-site construction activity, construction truck hauling, 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.[15]

The project increased cancer risk is computed by summing the project construction cancer risk and operation cancer risk contributions. Unlike the increased maximum cancer risk, the annual $PM_{2.5}$ concentration and HI values are not additive but based on the annual maximum values 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.

[15] Bay Area Air Quality Management District, *2022 CEQA Air Quality Guidelines*, April 2023.

The methodology for computing health risks impacts is contained in Appendix E of the BAAQMD CEQA Guidelines. TAC and $PM_{2.5}$ emissions are calculated, a dispersion model used to estimate ambient pollutant concentrations, and cancer risks and HI calculated using DPM concentrations.

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 the nearby existing residences and schools that are indicated 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. There is a preschool and four schools in the nearby area with children, ages one to 13. While there are additional sensitive receptors within 1,000 feet of the project site, the receptors chosen are adequate to identify maximum impacts from the project.

Health Risks from Project Construction

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust (i.e., DPM), which is a known TAC. While DPM emissions would not be considered to contribute substantially to existing or projected ambient air quality violations, they still pose health risks for sensitive receptors such as surrounding residents. The primary health risk impacts associated with construction emissions are cancer risk and exposure to $PM_{2.5}$. 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 $PM_{2.5}$.[16] 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 model provided total uncontrolled annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles. DPM emissions are estimated to be 0.08 tons (161 pounds) and fugitive dust emissions ($PM_{2.5}$) to be 0.06 tons (121 pounds) from construction of all three Project components. Off-road equipment includes mobile and portable construction equipment operating at the construction sites. The on-road emissions are a result of haul truck travel during grading activities, worker travel, and vendor deliveries during construction. A trip length of half a mile was used to represent vehicle travel while at or near the construction sites. It was assumed that the emissions from on-road vehicles traveling at or near the site would occur at the construction site.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and $PM_{2.5}$ concentrations at sensitive receptors (i.e., residences and schools) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAQMD-recommended model for use in modeling

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

analysis of these types of emission activities for CEQA projects.[17] Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive $PM_{2.5}$ dust emissions.

Construction Sources

The AERMOD modeling utilized area sources to represent construction emissions from the different sites (see Figure 1). Each site was represented by one area source for exhaust emissions of DPM and one for fugitive $PM_{2.5}$ dust emissions. To represent the construction equipment DPM emissions, an area source emission release height of 20 feet (6 meters) was used.[18] The release height incorporates both the physical release height from the construction equipment (i.e., the height of the exhaust pipe) and plume rise after it leaves the exhaust pipe. Plume rise is due to both the high temperature of the exhaust and the high velocity of the exhaust gas. It should be noted that when modeling an area source, plume rise is not calculated by the AERMOD dispersion model as it would do for a point source (exhaust stack). Therefore, the release height from an area source used to represent emissions from sources with plume rise, such as construction equipment, should be based on the height the exhaust plume is expected to achieve, not just the height of the top of the exhaust pipe. Emissions from vehicle travel on- and off-site were distributed among the area sources throughout the site. The locations of the area sources used for the modeling are identified in Figure 1.

For modeling fugitive $PM_{2.5}$ emissions, a near-ground level release height of 7 feet (2 meters) was used for the area source. 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. Emissions from the construction equipment and on-road vehicle travel were distributed throughout the modeled area sources.

AERMOD Inputs and Meteorological Data

The 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 Monday through Friday between 7:00 a.m. to 7:00 p.m., when the majority of construction activity would occur according to the project applicant. Annual DPM and $PM_{2.5}$ concentrations from construction activities during the 2024-2029 period were calculated using the model. DPM and $PM_{2.5}$ concentrations were calculated at nearby sensitive receptors. Receptor heights of 5 feet (1.5 meters) and 15 feet (4.5 meters) were used to represent the breathing heights

[17] BAAQMD, *Appendix E of the 2022 BAAQMD CEQA Air Quality Guidelines.* April 2023.
[18] California Air Resource Board, 2007. *Proposed Regulation for In-Use Off-Road Diesel Vehicles, Appendix D: Health Risk Methodology.* April. Web: https://ww3.arb.ca.gov/regact/2007/ordiesl07/ordiesl07.htm

on the first and second floors of nearby multi- and single-family residences.[19] A receptor height of 3 feet (1 meter) was used to represent the breathing height of children at the nearby schools.

Summary of Construction Health Risk Impacts

The maximum increased cancer risks were calculated using the modeled TAC concentrations combined with the BAAQMD CEQA guidance for age sensitivity factors and exposure parameters. 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, while infant and/or child exposures were assumed at the schools.

Non-cancer health hazards and maximum annual $PM_{2.5}$ concentrations were also calculated and identified. 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-modeled DPM concentration and the chronic inhalation DPM refence exposure level of 5 $\mu g/m^3$.

The maximum modeled annual DPM and $PM_{2.5}$ concentrations were assessed for the entire construction period that included all three Project components. Results of this assessment indicated that the construction MEIs for cancer risk and $PM_{2.5}$ occurred at different locations. The cancer risk MEI was located on the first floor (5 feet) of an adjacent residence northwest of the 1347 E. Julian Street site. The annual $PM_{2.5}$ concentration MEI was located on the first floor (5 feet) of an adjacent residence south of the 1298 Tripp Avenue site. The location of the cancer risk and $PM_{2.5}$ MEIs are shown in Figure 1. Additionally, modeling was conducted to predict the cancer risks, non-cancer health hazards, and maximum $PM_{2.5}$ concentrations associated with construction activities at the nearby schools. The maximum increased cancer risks were adjusted using infant and/or child exposure parameters. The maximum uncontrolled school health risk impacts occurred at Rocketship Discovery Prep west of the 1325 E. Julian Street site.

Table 5 lists the health risks from construction at the location of the residential construction MEIs and maximum school receptor. The unmitigated maximum cancer risks and annual $PM_{2.5}$ concentration from construction activities at the project residential MEI locations would exceed or be at the single-source significance thresholds. However, with the incorporation of the *Mitigation Measure AQ-1 and AQ-2*, the mitigated risk would no longer exceed the significance thresholds. The unmitigated annual non-cancer hazards from construction activities would be below the single-source significance threshold. In addition, the maximum cancer risk, $PM_{2.5}$ concentrations and HIs at all nearby schools would not exceed their respective BAAQMD single-source significance thresholds. *Attachment 2* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

[19] 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

Table 5. Construction Risk Impacts at the Off-Site Receptors

Source		Cancer Risk[1] (per million)	Annual $PM_{2.5}$[1] ($\mu g/m^3$)	Hazard Index
Project Construction – **Residential Exposure**				
	Unmitigated	**10.11 (infant)**	**0.34**	0.01
	Mitigated[2]	4.72 (infant)	0.28	0.01
BAAQMD Single-Source Threshold		***10***	***0.3***	***1.0***
Exceed Threshold?	Unmitigated	***Yes***	***Yes***	*No*
	Mitigated[2]	*No*	*No*	*No*
Project Construction – **Maximum School Exposure**				
(Rocketship Discovery Prep)	Unmitigated	2.12 (child)	0.03	>0.01
	Mitigated[2]	1.41 (child)	0.03	<0.01
BAAQMD Single-Source Threshold		***10***	***0.3***	***1.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*
	Mitigated[2]	*No*	*No*	*No*

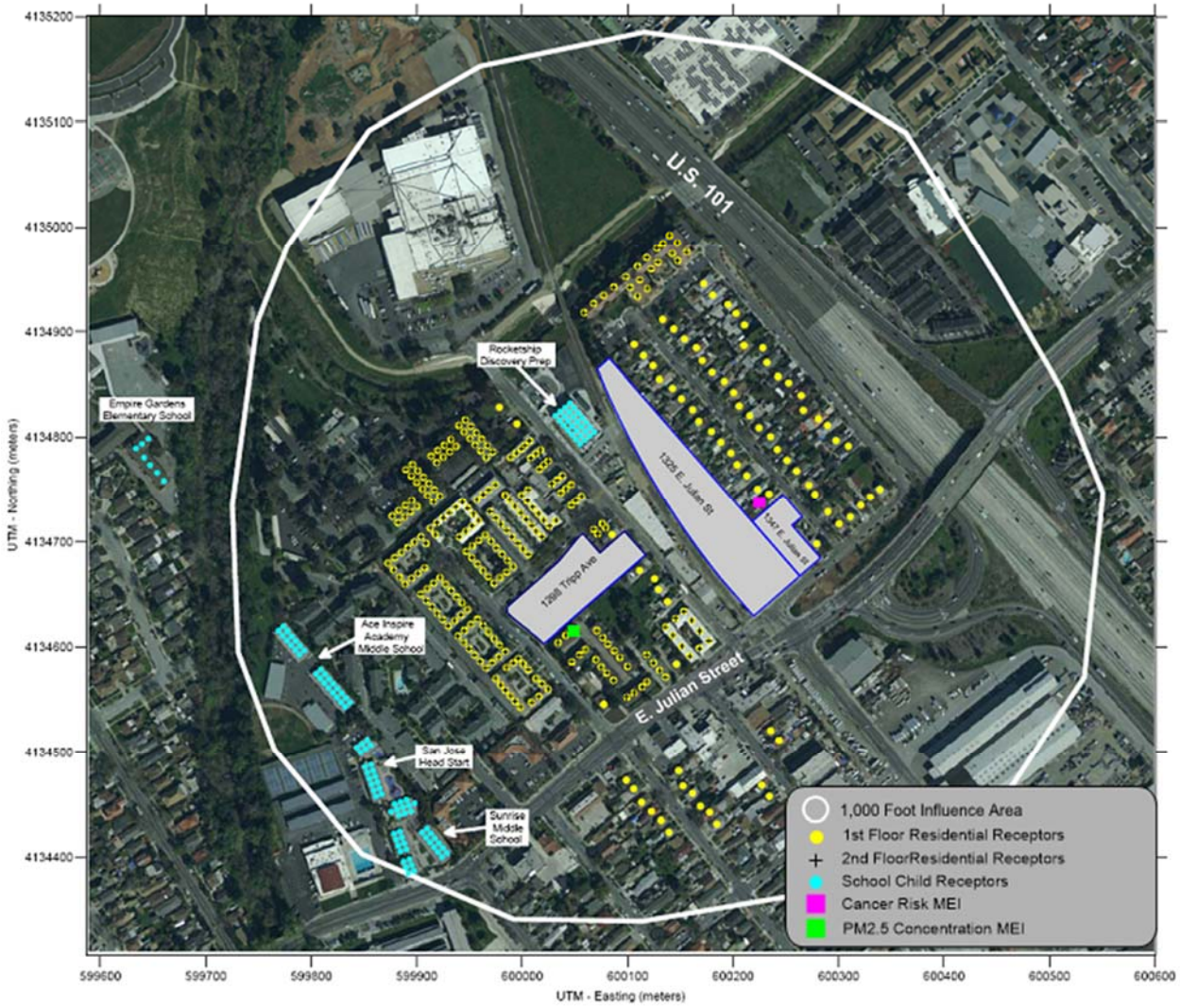
Notes: [1] Maximum cancer risk and $PM_{2.5}$ concentration occur at different receptor locations.
[2] Construction equipment with Tier 4 interim engines and enhanced BMPs as Mitigation Measures

Health Risks from Project Operation

This is a residential project and heavy-duty diesel truck traffic or stationary equipment that could emit substantial TACs (e.g., emergency generators or fire pumps) are not generated by this type of project. Diesel powered vehicles are the primary concern with local traffic-generated TAC impacts. Per BAAQMD recommended risks and methodology, a road with less than 10,000 total vehicle per day is considered a low-impact source of TACs.[20] The project would generate 3,435 new net daily trips when taking into account the existing use and various trip reductions.[21] The project traffic would be 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. In addition, projects with the potential to cause or contribute to increased cancer risk from traffic include those that attract high numbers of diesel-powered on road trucks or use off-road diesel equipment on site, such as a warehouse distribution center, a quarry, or a manufacturing facility. Therefore, emissions from project operation are considered negligible and not included within this analysis.

[20] BAAQMD, 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] Hexagon Transportation Consultants, Inc., *Five Wounds Residential Mixed-Use Developments Local Transportation Analysis,* May 10, 2023.

Figure 1. Locations of Project Construction Sites, Off-Site Sensitive Receptors, and Maximum TAC Impacts (MEIs)



Cumulative Health Risks of all TAC Sources at the Off-Site Project MEIs

Health risk assessments typically look at all substantial sources of TACs that can affect sensitive receptors 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.

A review of the project area based on provided traffic information indicates that traffic on U.S. Highway 101 (U.S. 101) and E. Julian Street would exceed 10,000 vehicles per day. Other nearby streets would have less than 10,000 vehicles per day. A review of BAAQMD's stationary source map website identified four stationary TAC sources with the potential to affect the project MEIs. Figure 2 shows the location of the TAC sources affecting the MEIs. Risk impacts from these sources upon the MEIs are reported in Table 6. Details of the modeling and health risk calculations are included in *Attachment 3.*

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

Highways and Local Roadways – U.S. 101 and E. Julian Street

An analysis of potential health impacts from vehicle traffic on U.S. 101 and E. Julian Street was conducted. The analysis involved predicting emissions for the traffic volume and mix of vehicle types on the roadway near the project site and using an atmospheric dispersion model to predict exposure to TACs and $PM_{2.5}$. The associated cancer risks and $PM_{2.5}$ are then computed based on the modeled exposures.

Emission Rates

This analysis involved the development of DPM, organic TACs, and $PM_{2.5}$ emissions for traffic on the U.S. 101 and E. Julian Street using the Caltrans version of the EMFAC2021 emissions model, known as CT-EMFAC2021. CT-EMFAC2021 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 (e.g., TOG), running evaporative losses for

TOG, tire and brake wear, and fugitive road dust for $PM_{2.5}$. All $PM_{2.5}$ 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. DPM emissions are projected to decrease in the future and are reflected in the CT-EMFAC2021 emissions data. Inputs to the model include region (i.e., Santa Clara County), type of road (i.e., freeway and major/collector), Caltrans estimated local truck mix on U.S. 101 (6.63 percent) [22] and truck percentage for non-state highways in Santa Clara County (3.51 percent),[23] traffic mix assigned by CT-EMFAC2021 for the county, year of analysis (2025 assumed to represent entire construction period), and season (annual).

In order 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 project MEI, the CT-EMFAC2021 model was used to develop vehicle emission factors for the year 2025. 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-EMFAC2021. Year 2025 emissions were conservatively assumed as being representative of future conditions over the time period that cancer risks are evaluated.

The traffic information reported by Caltrans for US 101 was increased 1 percent per year to 156,000 vehicles per day (based on an annual average) that includes about 6.6 percent trucks, of which 3.3 percent are considered diesel heavy duty trucks and 3.3 percent are medium duty trucks.[24] Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,[25] which were then applied to the average daily traffic (ADT) volumes to obtain estimated hourly traffic volumes and emissions for the roadway. For all hours of the day, an average speed of 60 mph was assumed for all vehicles on U.S. 101.

The ADT volume for E. Julian Street was based on AM and PM peak-hour background traffic volumes for the nearby roadway provided by the project's traffic data.[26] The calculated ADT on E. Julian Street would be 13,500 vehicles. Average hourly traffic distributions for Santa Clara County roadways were developed using the EMFAC model,[27] which were then applied to the ADT volumes to obtain estimated hourly traffic volumes and emissions for the roadway. For all hours

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[22] Caltrans. 2022. *2020 Annual Average Daily Truck Traffic on the California State Highways.* Web: https://dot.ca.gov/programs/traffic-operations/census

[23] BAAQMD, 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] Caltrans. 2022. *2020 Annual Average Daily Truck Traffic on the California State Highway System.* Web: https://dot.ca.gov/programs/traffic-operations/census.

[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 EMFAC2021 does not include Burden type output with hour by hour traffic volume information.

[26] Hexagon Transportation Consultants, Inc., *Five Wounds Residential Mixed-Use Developments Local Transportation Analysis,* May 10, 2023.

[27] 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.

of the day an average speed of 30 mph on E. Julian Street were assumed for all vehicles, 5 mph below the posted speed limit on the roadway 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 EPA AERMOD air quality dispersion model, which is recommended by the BAAQMD for this type of analysis.[28] TAC and $PM_{2.5}$ emissions from traffic on U.S. 101 and E. Julian Street within 1,000 feet of the project site were evaluated. Vehicle traffic on the roadways was modeled using a series of volume sources along a line (line volume sources); with line segments used for opposing travel directions on each roadway. The same meteorological data and off-site sensitive receptor MEI locations from the previous project impact 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 from traffic on the roadways were calculated using the model. Concentrations were calculated at the project MEIs with receptor heights of 5 feet (1.5 meters) to represent the breathing heights at the MEI receptors.

Computed Cancer and Non-Cancer Health Impacts

Maximum increased lifetime cancer risks and annual $PM_{2.5}$ concentrations for the receptors were computed using modeled TAC and $PM_{2.5}$ concentrations and BAAQMD methods and exposure parameters. The traffic-related cancer risk, $PM_{2.5}$ concentration, and HI impacts on the project MEIs are shown in Table 6. Figure 2 shows the roadway links used for the modeling and 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 U.S. 101 and E. Julian Street traffic are provided in *Attachment 3*.

BAAQMD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAQMD's *Permitted Stationary Sources 2020* GIS website,[29] 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. Four sources were identified within 1,000 feet of the project site using this tool with one source being a gas dispensing facility, one being a diesel-powered generator, and one being other generic sources. A Stationary Source Information Form (SSIF) containing the identified sources was prepared and submitted to BAAQMD. BAAQMD provided updated emissions data and screening risk values.[30]

The screening level risks and hazards provided by BAAQMD for the stationary sources were adjusted for distance using BAAQMD's *Distance Adjustment Multiplier Tool for Gasoline Dispensing Facility, Diesel Internal Combustion Engines, and Generic Equipment*. Dispersion

[28] BAAQMD. *Recommended Methods for Screening and Modeling Local Risks and Hazards*. May 2012
[29] BAAQMD, Web: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3
[30] Correspondence with Matthew Hanson, Environmental Planner II, BAAQMD, June 9, 2022.

modeling was conducted where screening levels exceeded thresholds. Health risk impacts from the stationary sources upon the MEIs are reported in Table 6. Since one of the four identified sources was closed/removed, only three sources were analyzed. The three sources are described as follows:

- Plant 5582, Eggo Company, which manufactures food products, affects the Project area. This source includes conveyors, boilers, and an emergency generator powered by diesel. BAAQMD's Health Risk Calculator Beta 4.0 was used to predict screening level risks based on the 2022 emissions report. Emissions for the Plant, which were provided by BAAQMD, are entered into the calculator. Particulate matter emissions from the conveyor includes all particulate sizes. To assess $PM_{2.5}$ emissions, the PM size profile that BAAQMD provides was used. The conveyor source was assumed to fall under PM Profile 778 "EPA Avg: Food and Agriculture" with a weight fraction of $PM_{2.5}$ to total particulates of 0.14, 14 percent by weight $PM_{2.5}$. Screening $PM_{2.5}$ concentrations computed using the calculator for the natural gas boiler exceed single-source thresholds. Therefore, dispersion modeling for this source was conducted. The facility boiler was modeled as a point source centrally located on the roof of the Kellogg (Eggo) building using AERMOD along with meteorological data and receptors described previously for other sources. $PM_{2.5}$ emissions and source parameters used for the modeling are provided in *Attachment 3*.

- Plant 18356, Verizon Wireless, is a diesel-powered generator. Screening risks provided by BAAQMD were used with the Distance Adjustment Multiplier Tool for internal combustion engines to account for the distance between source and receptor.

- Plant 110689-1, Mobil SS#63175, is a gasoline dispensing facility. Screening risks provided by BAAQMD were used with the Distance Adjustment Multiplier Tool for Gasoline Dispensing Facility to account for the distance between source and receptor.

- Plant 23894, Therma LLC, was found to be closed (no longer a source of emissions).

Summary of Health Risks at the Project MEI

For this project, the sensitive receptors identified in Figure 2 as the construction MEIs for cancer risk and $PM_{2.5}$ concentration are also the project MEIs. At this location, the MEIs would be exposed to six years of project construction. The annual $PM_{2.5}$ concentration and HI values are based on an annual maximum risk for the entirety of the project. Table 5 reports maximum off-site impacts from construction of the Project, while Table 6 reports both the project and cumulative health risk impacts at the sensitive receptor most affected by project construction (i.e., the MEIs). The project would have an exceedance with respect to health risk caused by project construction activities, since the maximum unmitigated cancer risk and annual $PM_{2.5}$ concentration exceed or is at the BAAQMD single-source thresholds. With the implementation of *Mitigation Measures AQ-1 and AQ-2*, the project's cancer risks and annual $PM_{2.5}$ concentration would be reduced below single-source thresholds. The combined annual $PM_{2.5}$ concentration, which includes unmitigated and mitigated impacts, would not exceed its cumulative thresholds due to emissions from the nearby existing sources. The combined cancer risk and HI, unmitigated and mitigated, would not exceed the cumulative thresholds.

Table 6. Cumulative Health Risk Impacts at the Location of the Project MEIs

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Impacts at MEIs				
Project Construction	Unmitigated	**10.11 (infant)**	**0.34**	0.01
	Mitigated	4.72 (infant)	0.28	0.01
BAAQMD Single-Source Threshold		***10***	***0.3***	***1.0***
Exceed Threshold?	Unmitigated	***Yes***	***Yes***	*No*
	Mitigated	*No*	*No*	*No*
Cumulative Sources				
U.S. 101, ADT 156,000		5.83	0.02	<0.01
E. Julian Street, ADT 13,500		0.53	0.03	<0.01
Eggo Company (Facility ID #5582, Manufacturing), MEIs at 950 feet				
Generator (based on screening)		0.30	<0.00	<0.00
Boiler (based on $PM_{2.5}$ dispersion modeling)		0.09	0.01	<0.01
Conveyors (based on screening)		<0.01	<0.01	<0.01
Verizon Wireless (Hwy 101/Julian) (Facility ID #18356, Information), MEIs at +1,000 feet		0.05	<0.01	<0.01
Mobil SS#63175 (Facility ID #110689_1, Gas Dispensing Facility), MEIs at 700 & 375 feet		0.57	-	<0.01
Therma LLC (Facility ID #23894, Manufacturing)		Site removed		
Combined Sources	Unmitigated	46.28	0.42	0.07
	Mitigated	10.13	0.36	0.07
BAAQMD Cumulative Source Threshold		***100***	***0.8***	***10.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*
	Mitigated	*No*	*No*	*No*

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

See description of Mitigation Measure AQ-1 provided above.

Mitigation Measure AQ-2: **Use construction equipment that has low diesel particulate matter exhaust emissions.**

All diesel-powered 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 PM (PM_{10} 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 Level 3 verifiable diesel emission control devices that altogether achieve a 10 percent reduction in particulate matter exhaust in comparison to uncontrolled equipment; alternatively (or in combination).

b. Use of electrical or non-diesel fueled equipment.

In the event that specific diesel construction equipment cannot meet this mitigation measure, an exception must be obtained from the City where the applicant demonstrates that impacts would not be significant.

Effectiveness of Mitigation Measure AQ-1 and AQ-2

CalEEMod was used to compute emissions associated with both mitigation measures assuming that all equipment met U.S. EPA Tier 4 Interim engine standards and BAAQMD basic and enhanced BMPs for construction were included. With these implemented, the project's construction cancer risk levels (assuming infant exposure) would be reduced by 53 percent to 4.72 per million and the $PM_{2.5}$ concentration would be reduced by 18 percent to 0.28 $\mu g/m^3$. As a result, the project's construction risks and hazards would be reduced below the BAAQMD single-source thresholds.

Non-CEQA: On-Site Health 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 their designs to avoid significant risks to health and safety. BAAQMD's recommended thresholds for health risks and hazards, shown in Table 1, are used to evaluate on-site exposure.

A health risk assessment was completed to assess the impact that the existing TAC sources would have on the new proposed sensitive receptors (residents) introduced by the project. The same TAC sources identified above were used in this assessment.[31] Figure 2 shows the on-site sensitive receptors in relation to the nearby TAC sources. Results are listed in Tables 7a, 7b, and 7c for each of the new residential sites. *Attachment 3* includes the dispersion modeling and risk calculations for TAC source impacts upon the proposed on-site sensitive receptors.

Project Phased Construction

Project residents could occupy a building once it has completed construction. Therefore, it was assumed that 1347 E. Julian Street component would be constructed and have sensitive receptors during the construction of the 1325 E. Julian Street and 1298 Tripp Avenue components. The construction analysis for the new residents was conducted in the same manner as described above for the off-site MEI. Receptors were placed within the residential building footprint of 1347 E. Julian Street and were spaced every 23 feet (7 meters). Receptor heights of 29 feet (8.8 meters) and 38 feet (11.7 meters) were used representing sensitive receptors on the second and third floors of the building. The second floor is the first level with residential units, the first floor will only serve commercial uses. Maximum increased cancer risks were calculated for the 1347 E. Julian Street residents using the maximum modeled TAC concentrations. Maximum construction impacts would occur at the second-floor level of the building, as shown in Figure 2. The on-site health risk

[31] 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 environment on a project are excluded from CEQA unless the project itself "exacerbates" such impacts.

impacts are shown in Tables 7a for 1347 E. Julian Street. There would be no sensitive receptors exposed to construction TAC sources at the 1325 E. Julian Street or 1298 Tripp Avenue sites. Details of the emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 3.*

Highways and Local Roadways – U.S. 101 and E. Julian Street

The roadway analysis for the project residents was conducted in the same manner as described above for the off-site MEI. Year 2025 emission factors were conservatively assumed as being representative of future conditions. Roadway cancer risk calculations were conducted in the same manner as described above for the on-site construction risk. Tables 7a, 7b, and 7c include the impacts from traffic.

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. Tables 7a, 7b, and 7c include the impacts from stationary sources.

Health Risks

Health risk impacts from both project construction and existing TAC sources upon the sites' new residential receptors are reported in Tables 7a, 7b, and 7c. The risks from each individual TAC source are compared against the BAAQMD single-source thresholds. The risks from all the sources combined are compared against the BAAQMD cumulative-source threshold. This is a conservative assessment that overpredicts cumulative levels because the maximum impact from individual sources does not occur at the same location across each individual site.

Table 7a. Health Risk Impacts Upon 1347 E. Julian Ave

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Sources			
Construction Impacts			
Unmitigated	**13.37**	0.07	0.01
Mitigated	**10.64**	0.07	0.01
COA MERV13	4.21	0.02	<0.01
Existing TAC Sources			
U.S. 101, ADT 156,000	3.30	0.05	<0.01
E. Julian, ADT 13,500	0.41	0.02	<0.01
Eggo Company (Facility ID #5582, Manufacturing), MEI at >1,000 feet			
Generator (based on screening)	0.29	<0.01	0.00
Boiler (based on $PM_{2.5}$ dispersion modeling)	0.08	0.02	<0.01
Conveyors (based on screening)	0.00	0.01	0.01
Verizon Wireless (Hwy 101/Julian) (Facility ID #18356, Information), MEI at ~1,000	0.05	0.00	0.00
Mobil SS#63175 (Facility ID #110689_1, Gas Dispensing Facility), MEI at 475 feet	0.98	0.00	<0.01
Therma LLC (Facility ID #23894, Manufacturing)	Site removed		
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?			
Unmitigated	***Yes***	*No*	*No*
Mitigated	***Yes***	*No*	*No*
COA MERV13	*No*	*No*	*No*
Combined Sources Unmitigated	18.48	<0.18	<0.06
Mitigated	15.75	<0.18	<0.06
COA MERV13	9.32	<0.13	<0.06
BAAQMD Cumulative Source Threshold	***100***	***0.8***	***10.0***
Exceed Threshold?	*No*	*No*	*No*

Table 7b. Health Risk Impacts Upon 1298 Tripp Ave

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Existing TAC Sources			
U.S. 101, ADT 156,000	2.48	0.03	<0.01
E. Julian, ADT 13,500	0.46	0.02	<0.01
Eggo Company (Facility ID #5582, Manufacturing), MEI at 885 feet			
Generator (based on screening)	0.37	0.01	0.00
Boiler (based on $PM_{2.5}$ dispersion modeling)	0.10	0.02	<0.01
Conveyors (based on screening)	0.00	<0.01	0.00
Verizon Wireless (Hwy 101/Julian) (Facility ID #18356, Information), MEI at ~1,000	0.05	0.00	0.00
Mobil SS#63175 (Facility ID #110689_1, Gas Dispensing Facility), MEI at 420 feet	1.30	0.00	<0.01
Therma LLC (Facility ID #23894, Manufacturing)	Site removed		
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?	*No*	*No*	*No*
Combined Sources	<4.76	<0.09	<0.04
BAAQMD Cumulative Source Threshold	*100*	*0.8*	*10.0*
Exceed Threshold?	*No*	*No*	*No*

Table 7c. Health Risk Impacts Upon 1325 E. Julian

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Existing TAC Sources			
U.S. 101, ADT 156,000	4.52	0.06	<0.01
E. Julian, ADT 13,500	0.96	0.05	<0.01
Eggo Company (Facility ID #5582, Manufacturing), MEI at 450 feet			
Generator (based on screening)	0.88	<0.01	0.00
Boiler (based on $PM_{2.5}$ dispersion modeling)	0.21	0.04	<0.01
Conveyors (based on screening)	0.00	0.01	0.00
Verizon Wireless (Hwy 101/Julian) (Facility ID #18356, Information), MEI at ~1,000	0.05	0.00	0.00
Mobil SS#63175 (Facility ID #110689_1, Gas Dispensing Facility), MEI at 650 feet	0.67	0.00	<0.01
Therma LLC (Facility ID #23894, Manufacturing)	Site removed		
BAAQMD Single-Source Threshold	***10***	***0.3***	***1.0***
Exceed Threshold?	*No*	*No*	*No*
Combined Sources	7.29	0.17	<0.04
BAAQMD Cumulative Source Threshold	*100*	*0.8*	*10.0*
Exceed Threshold?	*No*	*No*	*No*

Results are as follows:

- Unmitigated construction would exposures of cancer risk a that exceed single-source thresholds at the 1347 E. Julian Street site. Implementation of *Mitigation Measures AQ-1 and AQ-2* would still not reduce construction period impacts to below the single-source thresholds. A Condition of Approval is recommended to install and maintain MERV13 air filtration at the 1347 E. Julian Street site throughout the other sites' construction periods.

- Impacts from traffic and stationery would not exceed the single-source thresholds at any of the sites.

- The cumulative cancer risk and maximum annual $PM_{2.5}$ concentration would not exceed the BAAQMD cumulative-source thresholds.

- The annual HI from the project's unmitigated and mitigated impacts, as well as the impacts from the other nearby sources, do not exceed the single- and cumulative-source thresholds.

Condition of Approval: **Design Features to Reduce Project Receptor Exposure**

Filtration in ventilation systems at the project site would be recommended to reduce the level of harmful pollutants to below the significant thresholds. The significant exposure for new project receptors is judged by two effects: (1) increased cancer risk, and (2) annual $PM_{2.5}$ concentration. Exposure to cancer risk from the construction of 1325 E. Julian Street and 1298 Tripp Avenue are above the thresholds. The cancer risks from construction are based on exposure to DPM from the exhaust of construction equipment. Reducing particulate matter exposure would reduce both annual $PM_{2.5}$ exposures and cancer risk.

The project shall include the following measures to minimize long-term increased cancer risk and annual $PM_{2.5}$ exposure for new project occupants:

1. Install air filtration for the entire residential building. Air filtration devices shall be rated MERV13 or higher. To ensure adequate health protection to sensitive receptors (i.e., residents), this ventilation system, whether mechanical or passive, shall filter all fresh air that would be circulated into the dwelling units.

2. The ventilation system shall be designed to keep the building at positive pressure when doors and windows are closed to reduce the intrusion of unfiltered outside air into the building.

3. As part of implementing this measure, an ongoing maintenance plan for the buildings' heating, ventilation, and air conditioning (HVAC) air filtration system shall be required that includes regular filter replacement throughout the construction of the other project sites.

4. Ensure that the use agreement and other property documents: (1) require cleaning, maintenance, and monitoring of the affected buildings for air flow leaks, (2) include

assurance that new owners or tenants are provided information on the ventilation system, and (3) include provisions that fees associated with owning or leasing a unit(s) in the building include funds for cleaning, maintenance, monitoring, and replacements of the filters, as needed.

Effectiveness of Recommended Design Features

A properly installed and operated ventilation system with MERV13 would achieve an 80-percent reduction for small particulates.[32] The overall effectiveness calculations take into account the amount of time spent outdoors and away from home. Assuming that the filtration system is 80-percent effective and the individual is being exposed to 21 hours of indoor filtered air and three hours of outdoor unfiltered air, then the overall effectiveness of a MERV13 filtration system would be about 70-percent for $PM_{2.5}$ exposure. This would reduce the cancer risk from the other projects' construction on 1347 E. Julian Street to 4.21 per million. With this Condition of Approval design feature, impacts from construction would be below their respective single-source threshold.

Impact AIR-4: Create objectionable odors affecting a substantial number of people?

The project would generate localized emissions of diesel exhaust during construction equipment operation and truck activity. These emissions may be noticeable from time to time by adjacent receptors. However, they would be localized and are not likely to adversely affect people off-site by resulting in confirmed odor complaints. The project would not include any sources of significant odors that would cause complaints from surrounding uses during operation.

[32] Bay Area Air Quality Management District (2016). Appendix B: Best Practices to Reduce Exposure to Local Air Pollution, *Planning Healthy Places A Guidebook for Addressing Local Sources of Air Pollutants in Community Planning* (p. 38). http://www.baaqmd.gov/~/media/files/planning-and-research/planning-healthy-places/php_may20_2016-pdf.pdf?la=en

Supporting Documentation

Attachment 1 includes the CalEEMod output for project construction and operational criteria air pollutant. The operational output for existing uses is also included in this attachment. Also included are any modeling assumptions.

Attachment 2 is the health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction. The AERMOD dispersion modeling files for this assessment, which are quite voluminous, are available upon request and would be provided in digital format.

Attachment 3 includes the cumulative health risk calculations, modeling results, and health risk calculations from sources affecting the project MEIs and new project sensitive receptors.

Attachment 1: CalEEMod Modeling Inputs and Outputs

Air Quality/Noise Construction Information Data Request

Project N 1347 E. Julian

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size 45 Dwelling Units 0.5189 total project acres disturbed

44,605 s.f. residential

s.f. retail

2,454 s.f. office/commercial

s.f. other, specify:

3112 s.f. parking garage 5 spaces

5889 s.f. parking lot 16 spaces

Construction Days (i.e., M-F) M to F

Construction Hours 7 am to 7 pm

Pile Driving? No

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION (not construction)? No

IF YES (if BOTH separate values) -->

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
	Demolition	**Start Date:**	**9/1/2024**	**Total phase:**				**Overall Import/Export Volumes**
		End Date:						
	Concrete/Industrial Saws	81	0.73	0	0	#DIV/0!	0	**Demolition Volume**
	Excavators	158	0.38	0	0	#DIV/0!	0	Square footage of buildings to be demolished
	Rubber-Tired Dozers	247	0.4	0	0	#DIV/0!	0	(or total tons to be hauled)
	Tractors/Loaders/Backhoes	97	0.37	0	0	#DIV/0!	0	0
	Other Equipment?							0
								0
	Site Preparation	**Start Date:**	**10/1/2024**	**Total phase:**	**7**			
		End Date:	**11/10/2024**					
1	Graders	7	0.41	7	3	3.0	60	
1	Rubber Tired Dozers	5	0.4	7	5	5.0	70	
1	Tractors/Loaders/Backhoes	97	0.37	7	2	2.0	502	
	Other Equipment?							
	Grading / Excavation	**Start Date:**	**11/10/2024**	**Total phase:**	**11**			
		End Date:	**12/24/2024**					**Soil Hauling Volume**
	Excavators	158	0.38		0	0.0	0	200 CY
1	Graders	187	0.41	7	4	2.5	2147	Import volume 1300 cubic yards
1	Rubber Tired Dozers	247	0.4	7	3	1.9	2075	
	Concrete/Industrial Saws	81	0.73		0	0.0	0	
1	Tractors/Loaders/Backhoes	97	0.37	7	7	4.5	1759	
	Other Equipment?							
	Trenching/Foundation	**Start Date:**	**1/24/2025**	**Total phase:**	**23**			
		End Date:	**2/24/2025**					
1	Tractor/Loader/Backhoe	97	0.37	7	14	4.3	3517	
1	Excavators	158	0.38	7	7	2.1	2942	
	Other Equipment?							
	Building - Exterior	**Start Date:**	**4/24/2025**	**Total phase:**	**174**			**Cement Trucks 37 Total Round-Trips**
		End Date:	**6/24/2025**					
1	Cranes	231	0.29	7	132	5.3	61899	Electric? (Y/N) N Otherwise assumed diesel
1	Forklifts	89	0.2	7	13	0.5	1620	N
1	Generator Sets	84	0.74	7	4	0.2	1740	Or temporary line power? (Y/N) Y
1	Tractors/Loaders/Backhoes	97	0.37	7	8	0.3	2010	
1	Welders	46	0.45	7	4	0.2	580	
	Other Equipment?							
Building - Interior/Architectural Coating		**Start Date:**	**6/24/2025**	**Total phase:**	**114**			
		End Date:	**8/30/2025**					
1	Air Compressors	78	0.48	7	90	5.5	23587	
1	Aerial Lift	62	0.31	7	114	7.0	15338	
	Other Equipment?							
	Paving	**Start Date:**	**8/30/2025**	**Total phase:**	**24**			
		Start Date:	**9/30/2025**					
1	Cement and Mortar Mixers	9	0.56	7	22	6.4	776	
0	Pavers	130	0.42		0	0.0	0	**Concrete 270 cubic yards**
0	Paving Equipment	132	0.36		0	0.0	0	
1	Rollers	80	0.38	7	15	4.4	3192	
0	Tractors/Loaders/Backhoes	97	0.37			0.0	0	
	Other Equipment?							
	Additional Phases	**Start Date:**		**Total phase:**				
		Start Date:						
						#DIV/0!	0	
						#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

Air Quality/Noise Construction Information Data Request

Project Name: 1325 E. Julian

Complete ALL Portions in Yellow

See Equipment Type TAB for type, horsepower and load factor

Project Size	633	**Dwelling Units**	3	**total project acres disturbed**
	533,537	**s.f. residential**		
		s.f. retail		
	11,437	**s.f. office/commercial**		
		s.f. other, specify:		
	90,512	**s.f. parking garage**	174	**spaces**
	1458	**s.f. parking lot**	8	**spaces**
Construction Days (i.e., M-F)	M	**to**	F	
Construction Hours	7	**am to**	7	**pm**

Pile Driving? No

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION (not construction)? N

IF YES (if BOTH separate values) -->

Kilowatts/Horsepower: ___na___?____

diesel

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
	Demolition	**Start Date:**	**9/1/2025**	**Total phase:**	**42**			**Overall Import/Export Volumes**
		End Date:	**10/1/2025**					
2	Concrete/Industrial Saws	81	0.73	7	8	1.3	6623	**Demolition Volume**
2	Excavators	158	0.38	7	10	1.7	8406	0
2	Rubber-Tired Dozers	247	0.4	7	8	1.3	11066	(or total tons to be hauled)
2	Tractors/Loaders/Backhoes	97	0.37	7	10	1.7	5025	1,000 square feet *or*
	Other Equipment?							20 Hauling volume (tons)
								Any pavement demolished and hauled 15 **tons**
	Site Preparation	**Start Date:**	**10/1/2025**	**Total phase:**	**45**			
		End Date:	**11/1/2025**					
2	Graders	187	0.41	7	5	0.8	5367	
2	Rubber Tired Dozers	247	0.4	7	6	0.9	8299	
2	Tractors/Loaders/Backhoes	97	0.37	7	10	1.6	5025	
	Other Equipment?							
	Grading / Excavation	**Start Date:**	**11/1/2025**	**Total phase:**	**44**			
		End Date:	**1/1/2026**					**Soil Hauling Volume**
2	Excavators	158	0.38	7	10	1.6	8406	Export volume 38,000 cubic yards
2	Graders	187	0.41	7	10	1.6	10734	Import volume 500 cubic yards?
2	Rubber Tired Dozers	247	0.4	7	5	0.8	6916	
2	Concrete/Industrial Saws	81	0.73	7	5	0.8	4139	
2	Tractors/Loaders/Backhoes	97	0.37	7	10	1.6	5025	
	Other Equipment?							
	Trenching/Foundation/Garage	**Start Date:**	**1/1/2026**	**Total phase:**	**218**			
		End Date:	**5/1/2026**					
2	Tractor/Loader/Backhoe	97	0.37	7	10	0.3	5025	
2	Excavators	158	0.38	7	10	0.3	8406	
2	Concrete Pump			7	20	0.6	0	
	Building - Exterior	**Start Date:**	**5/1/2026**	**Total phase:**	**326**			**Cement Trucks 2,400 Total Round-Trips**
		End Date:	**5/1/2028**					
2	Cranes	231	0.29	7	84	1.8	78780	Electric? (Y/N) No Otherwise assumed diesel
1	Forklifts	89	0.2	7	84	1.8	10466	Liquid Propane (LPG)? (Y/N) No Otherwise Assumed diesel
2	Generator Sets	84	0.74	7	84	1.8	73100	Or temporary line power? (Y/N) ___
2	Tractors/Loaders/Backhoes	97	0.37	7	40	0.9	20098	
4	Welders	46	0.45	7	40	0.9	23184	
	Other Equipment?							
	Building - Interior/Architectural Coating	**Start Date:**	**1/1/2027**	**Total phase:**	**195**			
		End Date:	**4/1/2028**					
4	Air Compressors	78	0.48	7	81	2.9	84914	
2	Aerial Lift	62	0.31	7	195	7.0	52471	
	Other Equipment?							
	Paving	**Start Date:**	**1/1/2028**	**Total phase:**	**174**			
		Start Date:	**3/1/2028**					
	Cement and Mortar Mixers	9	0.56			0.0	0	
2	Pavers	130	0.42	7	10	0.4	7644	
1	Paving Equipment	132	0.36	7	10	0.4	3326	
1	Rollers	80	0.38	7	10	0.4	2128	
1	Tractors/Loaders/Backhoes	97	0.37	7	10	0.4	2512	
	Other Equipment?							
	Additional Phases	**Start Date:**		**Total phase:**				
		Start Date:						
						#DIV/0!	0	
						#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

ise Construction Information Data Request

Project Name: 1298 Tripp Avenue

See Equipment Type TAB for type, horsepower and load factor

Complete ALL Portions in Yellow

Project Size	235	**Dwelling Units**	1.49	**total project acres disturbed**
	206017.9	**s.f. residential**		
		s.f. retail		
	821	**s.f. office/commercial**		
		s.f. other, specify:		
	44,101	**s.f. parking garage**	90	**spaces**
		s.f. parking lot		**spaces**
Construction Days (i.e., M-F)	M	**to**	F	
Construction Hours	7:00	**am to**	7:00	**pm**

Pile Driving? No

Project include on-site GENERATOR OR FIRE PUMP during project OPERATION (not construction)? N

IF YES (if BOTH separate values) -->

?

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
	Demolition	**Start Date:**	**6/1/2027**	**Total phase:**	**45**			**Overall Import/Export Volumes**
		End Date:	**8/1/2027**					
4	Concrete/Industrial Saws	81	0.73	7	20	3.1	33113	**Demolition Volume**
4	Excavators	158	0.38	7	16	2.5	26898	Square footage of buildings to be demolished
2	Rubber-Tired Dozers	247	0.4	7	10	1.6	13832	(*or* total tons to be hauled)
2	Tractors/Loaders/Backhoes	97	0.37	7	20	3.1	10049	**67,000** square feet *or*
	Other Equipment?							**?** Hauling volume (tons)
								Any pavement demolished and hauled. **2,000 tons**
	Site Preparation	**Start Date:**	**8/1/2027**	**Total phase:**	**44**			
		End Date:	**10/1/2027**					
2	Graders	187	0.41	7	20	3.2	21468	
2	Rubber Tired Dozers	247	0.4	7	20	3.2	27664	
2	Tractors/Loaders/Backhoes	97	0.37	7	20	3.2	10049	
	Other Equipment?							
	Grading / Excavation	**Start Date:**	**11/1/2027**	**Total phase:**	**21**			
		End Date:	**12/1/2027**					**Soil Hauling Volume**
2	Excavators	158	0.38	7	22	7.3	18492	Export volume = **21,000** cubic yards?
2	Graders	187	0.41	7	10	3.3	10734	
2	Rubber Tired Dozers	247	0.4	7	5	1.7	6916	
2	Concrete/Industrial Saws	81	0.73	7	5	1.7	4139	
2	Tractors/Loaders/Backhoes	97	0.37	7	20	6.7	10049	
	Other Equipment?							
	Trenching/Foundation/Garage	**Start Date:**	**12/1/2027**	**Total phase:**	**110**			
		End Date:	**5/1/2028**					
2	Tractor/Loader/Backhoe	97	0.37	7	20	1.3	10049	
2	Excavators	158	0.38	7	20	1.3	16811	
4	Concrete Pump			7	88	5.6	0	
	Building - Exterior	**Start Date:**	**5/1/2028**	**Total phase:**	**305**			**Cement Trucks? 490 Total Round-Trips**
		End Date:	**7/1/2028**					
1	Cranes	231	0.29	7	50	1.1	23447	Electric? No Otherwise assumed diesel
2	Forklifts	89	0.2	7	50	1.1	12460	Liquid Propane (LPG)? NO Otherwise Assumed diesel
2	Generator Sets	84	0.74	7	50	1.1	43512	Or temporary line power? YES
2	Tractors/Loaders/Backhoes	97	0.37	7	12	0.3	6030	
2	Welders	46	0.45	7	10	0.2	2898	
	Other Equipment?							
	Building - Interior/Architectural Coating	**Start Date:**	**2/1/2029**	**Total phase:**	**181**			
		End Date:	**10/11/2029**					
2	Air Compressors	78	0.48	7	80	3.1	41933	
2	Aerial Lift	62	0.31	7	80	3.1	21526	
	Other Equipment?							
	Paving	**Start Date:**		**Total phase:**				
		Start Date:						
	Cement and Mortar Mixers	9	0.56			#DIV/0!	0	
	Pavers	130	0.42			#DIV/0!	0	
	Paving Equipment	132	0.36			#DIV/0!	0	
	Rollers	80	0.38			#DIV/0!	0	
	Tractors/Loaders/Backhoes	97	0.37			#DIV/0!	0	
	Other Equipment?							
	Additional Phases	**Start Date:**		**Total phase:**				
		Start Date:						
						#DIV/0!	0	
						#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

Total Construction Criteria Air Pollutants							
Unmitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	PM2.5 Fugitive	CO2e	
Year	Tons					MT	
Construction Equipment							
2024	0.02	0.19	0.01	0.01	0.02	33.13	
2025	0.37	0.52	0.01	0.01	0.07	233.39	
2026	0.16	0.74	0.01	0.01	0.44	651.46	
2027	3.41	2.11	0.05	0.04	0.83	1313.99	
2028	0.89	0.59	0.01	0.01	0.29	426.87	
2029	1.48	0.13	0.002	0.001	0.03	44.19	
	Total Construction Emissions						
Tons	6.32	4.28	0.10	0.09		2703.02	
Pounds/Workdays	*Average Daily Emissions*					Workdays	
2024	0.61	5.88	0.26	0.24			**66**
2025	2.82	3.97	0.11	0.10			**261**
2026	1.22	5.68	0.11	0.10			**261**
2027	26.13	16.14	0.35	0.33			**261**
2028	13.57	9.06	0.19	0.16			**131**
2029	16.30	1.45	0.02	0.02			**181**
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**			
	Total Construction Emissions						
Pounds	60.65	42.18	1.04	0.94		0.00	
Average	10.89	7.38	0.17	0.15		0.00	1161.00
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**			

Total Mitigated Construction Criteria Air Pollutants							
Mitigated	ROG	NOX	PM10 Exhaust	PM2.5 Exhaust	M2.5 Fugitiv	CO2e	
Year	Tons					MT	
Construction Equipment							
2024			0.001		0.02		
2025			0.01		0.07		
2026			0.01		0.44		
2027			0.03		0.83		
2028			0.01		0.29		
2029							
	Total Construction Emissions						
Tons	0.00	0.00	0.06	0.00		0.00	

Operational Criteria Air Pollutants							
Unmitigated	ROG	NOX	Total PM10	Total PM2.5			
Year	Tons						
Total	5.73	1.06	2.61	0.67			
	Existing Use Emissions						
Total	0.46	0.19	0.09	0.02			
	Net Annual Operational Emissions						
Tons/year	5.27	0.87	2.52	0.65			
Threshold - Tons/year	**10.0**	**10.0**	**15.0**	**10.0**			
	Average Daily Emissions						
Pounds Per Day	28.90	4.76	13.79	3.58			
Threshold - lbs/day	**54.0**	**54.0**	**82.0**	**54.0**			

Category	**CO2e**			
	Project	Existing	Project 2030	Existing
Mobile	2316.52	224.13		
Area	13.58	3.18		
Energy	500.24	68.41		
Water	39.10	3.43		
Waste	215.67	11.58		
Refrig.	0.94	0.06		
TOTAL	3086.07	310.80	0.00	0.00
Net GHG Emissions		2775.27		0.00
Service Population	0.00			
Per Capita Emissions		#DIV/0!		#DIV/0!
	0	units		
CA DOF 1920 =	0	pphh		

Number of Days Per Year				
2023	9/5/22	12/31/23	483	346
2024			1	1
2025			1	1
			485	**347** ***Total Workdays***

Phase	Start Date	End Date	Days/Week	Workdays
Demolition	9/5/2022	10/7/2022	5	25
Site Preparation	10/10/2022	10/21/2022	5	10
Grading	10/24/2022	11/4/2022	5	10
Trenching	11/7/2022	1/27/2023	5	60
Building Construction	2/6/2023	7/23/2024	5	382
Architectural Coating	2/6/2023	7/23/2024	5	382
Paving	8/12/2024	9/6/2024	5	20

1347 E Julian Construction Criteria Air Pollutants							
Unmitigate	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	**CO2e**	
Year	Tons					MT	
Construction Equipment							
2024	0.02	0.19	0.01	0.01	0.02	33.13	
2025	0.34	0.12	0.004	0.00	0.01	36.04	
2026							
2027							
2028							
2029							
	Total Construction Emissions						
Tons	0.36	0.31	0.01	0.01		69.17	
Pounds/W							
orkdays	*Average Daily Emissions*					Workdays	
2024	0.61	5.88	0.26	0.24			66
2025	3.49	1.23	0.04	0.04			196
2026	0.00	0.00	0.00	0.00			
2027	0.00	0.00	0.00	0.00			
2028	0.00	0.00	0.00	0.00			
2029							
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			
	Total Construction Emissions						
Pounds	4.10	7.11	0.30	0.28		0.00	
Average	2.76	2.40	0.10	0.09		0.00	262.00
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

1347 E Julian Mitigated Construction Criteria Air Pollutants							
Mitigated	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	**CO2e**	
Year	Tons					MT	
Construction Equipment							
2024			0.001		0.02		
2025			0.002		0.01		
2026							
2027							
2028							
2029							
	Total Construction Emissions						
Tons	0.00	0.00	0.00	0.00		0.00	

Operational Criteria Air Pollutants							
Unmitigate	ROG	NOX	Total PM10	Total PM2.5			
Year	Tons						
Total	0.35	0.08	0.07	0.01			
	Existing Use Emissions						
Total							
	Net Annual Operational Emissions						
Tons/year	0.35	0.08	0.07	0.01			
Threshold	**10.0**	**10.0**	**15.0**	**10.0**			
	Average Daily Emissions						
Pounds							
Per Day	1.94	0.45	0.37	0.07			
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

Category	**CO2e**				
	Project	Existing	Project 203	Existing	
Mobile	160.62				
Area	0.64				
Energy	24.78				
Water	2.07				
Waste	11.23				
Refrig.	0.06				
TOTAL	199.40	0.00	0.00	0.00	
Net GHG Emissions		199.40		0.00	
Service Pop	0.00				
Per Capita Emissions		#DIV/0!		#DIV/0!	
	0 units				
CA DOF 19:	0 pphh				

Number of Days Per Year

2024	10/1/2024	12/31/2024	92	66
2025	1/1/2025	9/30/2025	273	196
			365	262

Phase	Start Date	End Date	Days/Week	Workdays
Site Prepa	10/1/2024	11/10/2024	5	29
Grading	11/10/2024	12/24/2024	5	32
Building C	4/24/2025	6/24/2025	5	44
Paving	8/30/2025	9/30/2025	5	22
Architecti	6/24/2025	8/30/2025	5	49
Trenching	1/24/2025	2/24/2025	5	22

1298 Tripp Ave Construction Criteria Air Pollutants

Unmitigate	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	CO2e	
Year	Tons					MT	
	Construction Equipment						
2024							
2025							
2026							
2027	0.06	0.66	0.02	0.02	0.08	220.89	
2028	0.03	0.16	0.005	0.004	0.05	77.37	
2029	1.48	0.13	0.002	0.001	0.03	44.19	
	Total Construction Emissions						
Tons	1.57	0.95	0.03	0.03		342.44	
Pounds/Workdays	*Average Daily Emissions*					Workdays	
2024	0.00	0.00	0.00	0.00			
2025	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
2026	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
2027	0.82	8.66	0.28	0.26			**153**
2028	0.44	2.44	0.07	0.07			**131**
2029	16.30	1.45	0.02	0.02			**181**
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			
	Total Construction Emissions						
Pounds	17.56	12.55	0.37	0.34		0.00	
Average	6.74	4.10	0.12	0.11		0.00	465.00
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

1298 Tripp Ave Mitigated Construction Criteria Air Pollutants

Mitigated	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	CO2e	
Year	Tons					MT	
	Construction Equipment						
2024							
2025							
2026							
2027			0.01		0.08		
2028			0.004		0.05		
2029			0.01		0.03		
	Total Construction Emissions						
Tons	0.00	0.00	0.01	0.00		0.00	

Operational Criteria Air Pollutants

Unmitigate	ROG	NOX	Total PM10	Total PM2.5			
Year	Tons						
Total	1.46	0.25	0.61	0.16			
	Existing Use Emissions						
Total	0.46	0.19	0.09	0.02			
	Net Annual Operational Emissions						
Tons/year	1.00	0.06	0.52	0.14			
Threshold	**10.0**	**10.0**	**15.0**	**10.0**			
	Average Daily Emissions						
Pounds Per Day	5.48	0.35	2.84	0.75			
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

Category	**CO2e**			
	Project	Existing	Project 203	Existing
Mobile	542.42	224.13		
Area	3.58	3.18		
Energy	128.95	68.41		
Water	9.81	3.43		
Waste	54.54	11.58		
Refrig.	0.25	0.06		
TOTAL	739.55	310.80	0.00	0.00
Net GHG Emissions		428.75		0.00
Service Pop	0.00			
Per Capita Emissions		#DIV/0!		#DIV/0!
	0 units			
CA DOF 19:	0 pphh			

Number of Days Per Year

2027	6/1/2027	12/31/2027	214	153
2028	1/1/2028	7/1/2028	183	131
2029	2/1/2029	10/11/2029	253	181
			650	465

Phase	Start Date	End Date	Days/Week	Workdays
Demolitio	6/1/2027	8/1/2027	5	44
Site Prepa	8/1/2027	10/1/2027	5	45
Grading	11/1/2027	12/1/2027	5	23
Building C	5/1/2028	7/1/2028	5	45
Architectu	2/1/2029	10/11/2029	5	181
Trenching	12/1/2027	5/1/2028	5	109

1325 E Julian Construction Criteria Air Pollutants							
Unmitigate	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	CO2e	
Year	Tons					MT	
Construction Equipment							
2024							
2025	0.03	0.40	0.01	0.01	0.06	197.35	
2026	0.16	0.74	0.01	0.01	0.44	651.46	
2027	3.35	1.44	0.02	0.02	0.75	1093.10	
2028	0.86	0.43	0.01	0.01	0.25	349.51	
2029							
	Total Construction Emissions						
Tons	4.39	3.02	0.06	0.05		2291.41	
Pounds/Workdays	*Average Daily Emissions*					Workdays	
2024	0.00	0.00	0.00	0.00			
2025	0.20	3.05	0.08	0.07			87
2026	1.22	5.68	0.11	0.10			261
2027	25.65	11.06	0.19	0.18			261
2028	19.78	9.97	0.17	0.14			87
2029							
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			
	Total Construction Emissions						
Pounds	46.65	26.71	0.47	0.42		0.00	
Average	12.62	8.67	0.16	0.15		0.00	696.00
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

1325 E Julian Mitigated Construction Criteria Air Pollutants							
Mitigated	ROG	NOX	M10 Exhau	M2.5 Exhau	M2.5 Fugiti	CO2e	
Year	Tons					MT	
Construction Equipment							
2024							
2025			0.005		0.06		
2026			0.01		0.44		
2027			0.03		0.75		
2028			0.01		0.25		
2029							
	Total Construction Emissions						
Tons	0.00	0.00	0.05	0.00		0.00	

Operational Criteria Air Pollutants							
Unmitigate	ROG	NOX	Total PM10	Total PM2.5			
Year	Tons						
Total	3.98	0.78	0.72	0.14			
	Existing Use Emissions						
Total							
	Net Annual Operational Emissions						
Tons/year	3.98	0.78	0.72	0.14			
Threshold	**10.0**	**10.0**	**15.0**	**10.0**			
	Average Daily Emissions						
Pounds Per Day	21.84	4.26	3.95	0.75			
Threshold	**54.0**	**54.0**	**82.0**	**54.0**			

Category	**CO2e**			
	Project	Existing	Project 203	Existing
Mobile	1654.63			
Area	9.36			
Energy	346.51			
Water	27.21			
Waste	149.90			
Refrig.	0.64			
TOTAL	2188.26	0.00	0.00	0.00
Net GHG Emissions		2188.26		0.00
Service Pop	0.00			
Per Capita Emissions		#DIV/0!		#DIV/0!
	0 units			
CA DOF 19:	0 pphh			

Number of Days Per Year

2025	9/1/2025	12/31/2025	122	87
2026	1/1/2026	12/31/2026	365	261
2027	1/1/2027	12/31/2027	365	261
2028	1/1/2028	5/1/2028	122	87
			974	697

Phase	Start Date	End Date	Days/Week	Workdays
Demolitio	9/1/2025	10/1/2025	5	23
Site Prepa	10/1/2025	11/1/2025	5	23
Grading	11/1/2025	1/1/2026	5	44
Building C	5/1/2026	5/1/2028	5	522
Paving	1/1/2028	3/1/2028	5	43
Architect	1/1/2027	4/1/2028	5	326
Trenching	1/1/2026	5/1/2026	5	87

			Traffic Consultant Trip Gen				CalEEMod Default		
Land Use			**Size**	**Daily Trips**	**New Trips**	**Weekday Trip Gen**	**Weekday**	**Sat**	**Sun**
1298 Tripp									
Apartments Mid Rise	DU		235	1130	865	***3.68***	5.44	4.91	4.09
Residential & Retail Internal Capture				*-7*			*Rev*	***3.32***	***2.77***
Location-Based Vehicle Mode Share		13%		*-146*					
Project-Specific Trip Reduction		11.50%		-112					
Strip Mall	ksf		0.821	45	27	***32.89***	44.32	42.04	20.43
Residential & retail Internal Capture		15%		*-7*			*Rev*	***31.19***	***15.16***
Location-Based Vehicle Mode Share		13%		*-5*					
Retail pass-By External Trip Reduction		17%		-6					
Existing									
Apartments Low Rise	DU		50	310	310	***6.20***	7.32	8.14	6.28
							Rev	***6.89***	***5.32***
1347 E Julian									
Apartments Mid-Rise	DU		45	216	151	***3.36***	5.44	4.91	4.09
Residential & Retail Internal Capture		13%		*-20*			*Rev*	***3.03***	***2.52***
Location-Based Vehicle Mode Share		11%		*-26*					
Project-Specific Trip Reduction				*-19*					
Strip Mall	ksf		2.454	134	82	***33.41***	44.32	42.04	20.43
Residential & Retail Internal Capture		15%		*-20*			*Rev*	***31.70***	***15.40***
Location-Based Vehicle Mode Share		13%		*-15*					
Retail Pass-By External Trip Reduction		17%		*-17*					
1325 E Julian St									
Apartments Mid Rise	DU		633	3015	2237	***3.53***	5.44	4.91	4.09
Residential & Retail Internal Capture		15%		*-93*			*Rev*	***3.19***	***2.66***
Location-Based Vehicle Mode Share		13%		*-380*					
Project-Specific Trip Reduction		12%		*-305*					
Strip Mall	ksf		11.437	623	383	***33.49***	44.32	42.04	20.43
Residential & Retail Internal Capture		15%		*-93*			*Rev*	***31.77***	***15.44***
Location-Based Vehicle Mode Share		13%		*-69*					
Retail Pass-By External Trip Reduction		17%		*-78*					
OPERATION									
Apartments Mid Rise	DU		913	3243	3243	***3.55***	5.44	4.91	4.09
							Rev	***3.21***	***2.67***
Strip Mall	ksf		16.29	656	656	***40.27***	44.32	42.04	20.43
							Rev	***38.20***	***18.56***

Table 3
Project Trip Generation Estimates for 1298 Tripp Avenue

				AM Peak Hour				PM Peak Hour			
Land Use	**Size**	**Daily Rate**	**Daily Trips**	**Pk-Hr Rate**	**In**	**Out**	**Total**	**Pk-Hr Rate**	**In**	**Out**	**Total**
Proposed Uses											
Affordable Housing [1]	235 DU	4.81	1,130	0.50	34	84	118	0.46	64	44	108
Residential & Retail Internal Capture [3]			*(7)*		*0*	*0*	*0*		*0*	*(1)*	*(1)*
Location-Based Vehicle Mode Share (13%) [4]			*(146)*		*(4)*	*(11)*	*(15)*		*(8)*	*(6)*	*(14)*
Project-Specific Trip Reduction (11.5%) [5]			*(112)*		*(4)*	*(8)*	*(12)*		*(7)*	*(4)*	*(11)*
Net Residential Trips:			**865**		**26**	**65**	**91**		**49**	**33**	**82**
Retail [2]	821 SF	54.45	45	2.36	1	1	2	6.59	3	2	5
Residential & Retail Internal Capture (15%) [3]			*(7)*		*0*	*0*	*0*		*(1)*	*0*	*(1)*
Location-Based Vehicle Mode Share (13%) [4]			*(5)*		*0*	*0*	*0*		*0*	*0*	*0*
Retail Pass-By External Trip Reduction [6]			*(6)*		*0*	*0*	*0*		*(1)*	*(1)*	*(2)*
Net Retail Trips:			**27**		**1**	**1**	**2**		**1**	**1**	**2**
Total Project Trips:			**892**		**27**	**66**	**93**		**50**	**34**	**84**
Existing Uses (To Be Removed)											
Apartments [7]			(310)		(10)	(20)	(30)		(23)	(9)	(32)
Total Net Project Trips:			**582**		**17**	**46**	**63**		**27**	**25**	**52**

Table 4
Project Trip Generation Estimates for 1347 E. Julian Street

				AM Peak Hour				PM Peak Hour			
Land Use	**Size**	**Daily Rate**	**Daily Trips**	**Pk-Hr Rate**	**In**	**Out**	**Total**	**Pk-Hr Rate**	**In**	**Out**	**Total**
Affordable Housing [1]	45 DU	4.81	216	0.50	7	16	23	0.46	12	9	21
Residential & Retail Internal Capture [3]			*(20)*		*0*	*(1)*	*(1)*		*(1)*	*(1)*	*(2)*
Location-Based Vehicle Mode Share (13%) [4]			*(26)*		*(1)*	*(2)*	*(3)*		*(1)*	*(1)*	*(2)*
Project-Specific Trip Reduction (11%) [5]			*(19)*		*(1)*	*(1)*	*(2)*		*(1)*	*(1)*	*(2)*
Net Residential Trips:			**151**		**5**	**12**	**17**		**9**	**6**	**15**
Retail [2]	2,454 SF	54.45	134	2.36	4	2	6	6.59	8	8	16
Residential & Retail Internal Capture (15%) [3]			*(20)*		*(1)*	*0*	*(1)*		*(1)*	*(1)*	*(2)*
Location-Based Vehicle Mode Share (13%) [4]			*(15)*		*0*	*0*	*0*		*(1)*	*(1)*	*(2)*
Retail Pass-By External Trip Reduction [6]			*(17)*		*0*	*0*	*0*		*(2)*	*(2)*	*(4)*
Net Retail Trips:			**82**		**3**	**2**	**5**		**4**	**4**	**8**
Total Net Project Trips:			**233**		**8**	**14**	**22**		**13**	**10**	**23**

Table 5
Project Trip Generation Estimates for 1325 E. Julian Street

				AM Peak Hour				PM Peak Hour			
Land Use	**Size**	**Daily Rate**	**Daily Trips**	**Pk-Hr Rate**	**In**	**Out**	**Total**	**Pk-Hr Rate**	**In**	**Out**	**Total**
Multifamily Housing (Mid-Rise) [1]	506 DU	4.75	2,404	0.32	58	104	162	0.29	96	51	147
Affordable Housing [1]	127 DU	4.81	611	0.50	19	45	64	0.46	34	24	58
Residential & Retail Internal Capture [3]			*(93)*		*(2)*	*(2)*	*(4)*		*(6)*	*(6)*	*(12)*
Location-Based Vehicle Mode Share (13%) [4]			*(380)*		*(10)*	*(19)*	*(29)*		*(16)*	*(9)*	*(25)*
Project-Specific Trip Reduction (12%) [5]			*(305)*		*(8)*	*(15)*	*(23)*		*(13)*	*(7)*	*(20)*
Net Residential Trips:			**2,237**		**57**	**113**	**170**		**95**	**53**	**148**
Retail [2]	11,437 SF	54.45	623	2.36	16	11	27	6.59	38	37	75
Residential & Retail Internal Capture (15%) [3]			*(93)*		*(2)*	*(2)*	*(4)*		*(6)*	*(6)*	*(12)*
Location-Based Vehicle Mode Share (13%) [4]			*(69)*		*(2)*	*(1)*	*(3)*		*(4)*	*(4)*	*(8)*
Retail Pass-By External Trip Reduction [6]			*(78)*		*0*	*0*	*0*		*(10)*	*(9)*	*(19)*
Net Retail Trips:			**383**		**12**	**8**	**20**		**18**	**18**	**36**
Total Net Project Trips:			**2,620**		**69**	**121**	**190**		**113**	**71**	**184**

22-012 1347 E Julian T4i 2026 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1347 E Julian T4i 2026
Construction Start Date	9/1/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1347 E Julian St, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments Mid Rise	45.0	Dwelling Unit	0.52	44,605	0.00	0.00	135	—
Unenclosed Parking with Elevator	5.00	Space	0.00	3,112	0.00	0.00	—	—
Parking Lot	16.0	Space	0.00	0.00	0.00	0.00	—	—
Strip Mall	2.45	1000sqft	0.00	2,454	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	4.34	0.14	1.58	1.72	0.13	0.39	0.52	1.88	1,493
Mit.	13.6	4.07	0.09	1.58	1.66	0.08	0.39	0.46	1.88	1,493
% Reduced	2%	6%	34%	—	4%	34%	—	11%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.33	12.9	0.58	3.23	3.80	0.53	1.37	1.90	0.04	2,394
Mit.	0.29	6.05	0.04	3.23	3.27	0.04	1.37	1.41	0.04	2,394
% Reduced	78%	53%	93%	—	14%	93%	—	26%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.87	1.06	0.05	0.27	0.31	0.04	0.11	0.16	0.12	218

Mit.	1.83	0.65	0.01	0.27	0.27	0.01	0.11	0.12	0.12	218
% Reduced	2%	39%	74%	—	14%	74%	—	26%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.34	0.19	0.01	0.05	0.06	0.01	0.02	0.03	0.02	36.0
Mit.	0.33	0.12	< 0.005	0.05	0.05	< 0.005	0.02	0.02	0.02	36.0
% Reduced	2%	39%	74%	—	14%	74%	—	26%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	13.9	4.34	0.14	1.58	1.72	0.13	0.39	0.52	1.88	1,493
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	1.33	12.9	0.58	3.23	3.80	0.53	1.37	1.90	0.04	2,394
2025	0.10	0.83	0.03	0.17	0.20	0.03	0.04	0.07	< 0.005	234
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.11	1.06	0.05	0.27	0.31	0.04	0.11	0.16	0.06	200
2025	1.87	0.66	0.02	0.22	0.25	0.02	0.06	0.07	0.12	218
Annual	—	—	—	—	—	—	—	—	—	—
2024	0.02	0.19	0.01	0.05	0.06	0.01	0.02	0.03	0.01	33.1
2025	0.34	0.12	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	36.0

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	13.6	4.07	0.09	1.58	1.66	0.08	0.39	0.46	1.88	1,493
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	0.29	6.05	0.04	3.23	3.27	0.04	1.37	1.41	0.04	2,394
2025	0.05	0.94	0.01	0.17	0.18	0.01	0.04	0.05	< 0.005	234
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.02	0.50	< 0.005	0.27	0.27	< 0.005	0.11	0.12	0.06	200
2025	1.83	0.65	0.01	0.22	0.24	0.01	0.06	0.07	0.12	218
Annual	—	—	—	—	—	—	—	—	—	—
2024	< 0.005	0.09	< 0.005	0.05	0.05	< 0.005	0.02	0.02	0.01	33.1
2025	0.33	0.12	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.02	36.0

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	2.16	0.45	0.01	0.38	0.39	0.01	0.07	0.08	4.13	1,330
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.86	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.43	1,257
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.94	0.45	0.01	0.36	0.37	0.01	0.06	0.07	1.87	1,204
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.35	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.31	199

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.71	0.43	0.01	0.38	0.39	0.01	0.07	0.07	3.79	1,092
Area	1.45	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5
Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33
Total	2.16	0.45	0.01	0.38	0.39	0.01	0.07	0.08	4.13	1,330
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.10	1,027
Area	1.19	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5
Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33
Total	1.86	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.43	1,257
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	0.62	0.44	0.01	0.36	0.36	0.01	0.06	0.07	1.53	970
Area	1.32	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.87
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5
Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33

Total	1.94	0.45	0.01	0.36	0.37	0.01	0.06	0.07	1.87	1,204
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.25	161
Area	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	24.8
Water	—	—	—	—	—	—	—	—	—	2.07
Waste	—	—	—	—	—	—	—	—	—	11.2
Refrig.	—	—	—	—	—	—	—	—	0.06	0.06
Total	0.35	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.31	199

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.71	0.43	0.01	0.38	0.39	0.01	0.07	0.07	3.79	1,092
Area	1.45	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5
Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33
Total	2.16	0.45	0.01	0.38	0.39	0.01	0.07	0.08	4.13	1,330
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	0.67	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.10	1,027
Area	1.19	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5

Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33
Total	1.86	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.43	1,257
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	0.62	0.44	0.01	0.36	0.36	0.01	0.06	0.07	1.53	970
Area	1.32	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.87
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	150
Water	—	—	—	—	—	—	—	—	—	12.5
Waste	—	—	—	—	—	—	—	—	—	67.8
Refrig.	—	—	—	—	—	—	—	—	0.33	0.33
Total	1.94	0.45	0.01	0.36	0.37	0.01	0.06	0.07	1.87	1,204
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.25	161
Area	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	24.8
Water	—	—	—	—	—	—	—	—	—	2.07
Waste	—	—	—	—	—	—	—	—	—	11.2
Refrig.	—	—	—	—	—	—	—	—	0.06	0.06
Total	0.35	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.31	199

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	8.06	0.37	—	0.37	0.34	—	0.34	—	1,151
Dust From Material Movement	—	—	—	1.67	1.67	—	0.83	0.83	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.64	0.03	—	0.03	0.03	—	0.03	—	91.4
Dust From Material Movement	—	—	—	0.13	0.13	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.01	—	0.01	< 0.005	—	< 0.005	—	15.1
Dust From Material Movement	—	—	—	0.02	0.02	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.26	0.26	0.00	0.06	0.06	0.01	61.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	3.24	0.02	—	0.02	0.02	—	0.02	—	1,151
Dust From Material Movement	—	—	—	1.67	1.67	—	0.83	0.83	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.26	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.4
Dust From Material Movement	—	—	—	0.13	0.13	—	0.07	0.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.1
Dust From Material Movement	—	—	—	0.02	0.02	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.26	0.26	0.00	0.06	0.06	0.01	61.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	4.20	0.20	—	0.20	0.18	—	0.18	—	670
Dust From Material Movement	—	—	—	0.67	0.67	—	0.32	0.32	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.02	—	0.02	0.02	—	0.02	—	58.8
Dust From Material Movement	—	—	—	0.06	0.06	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.73
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.26	0.26	0.00	0.06	0.06	0.01	61.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.57	0.01	0.37	0.38	0.01	0.09	0.10	0.02	450

Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.04	39.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	6.54

3.4. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.18	0.01	—	0.01	0.01	—	0.01	—	670
Dust From Material Movement	—	—	—	0.67	0.67	—	0.32	0.32	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.8
Dust From Material Movement	—	—	—	0.06	0.06	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.73
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.26	0.26	0.00	0.06	0.06	0.01	61.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.57	0.01	0.37	0.38	0.01	0.09	0.10	0.02	450
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.04	39.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	6.54

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.57	0.10	—	0.10	0.10	—	0.10	—	687
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.01	—	0.01	0.01	—	0.01	—	82.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.00	1.17	1.17	0.00	0.29	0.29	1.17	300
Vendor	0.01	0.20	< 0.005	0.15	0.15	< 0.005	0.04	0.04	0.41	162
Hauling	< 0.005	0.04	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.07	32.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.14	0.14	0.00	0.03	0.03	0.06	33.8
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	19.5
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.85
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	5.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.22

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.64

3.6. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	1.75	0.01	—	0.01	0.01	—	0.01	—	687
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.21	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	82.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.08	0.00	1.17	1.17	0.00	0.29	0.29	1.17	300
Vendor	0.01	0.20	< 0.005	0.15	0.15	< 0.005	0.04	0.04	0.41	162
Hauling	< 0.005	0.04	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.07	32.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.00	0.14	0.14	0.00	0.03	0.03	0.06	33.8
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02	19.5
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.85
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	5.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.22
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.64

3.7. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.82	0.04	—	0.04	0.03	—	0.03	—	123
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23
Paving	0.00	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.17	0.17	0.00	0.04	0.04	0.17	43.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.24	< 0.005	0.17	0.17	< 0.005	0.04	0.05	0.42	204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.3
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.03

3.8. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.94	0.03	—	0.03	0.03	—	0.03	—	123
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	0.17	0.17	0.00	0.04	0.04	0.17	43.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.24	< 0.005	0.17	0.17	< 0.005	0.04	0.05	0.42	204
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	12.3
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.03

3.9. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.44	0.03	—	0.03	0.03	—	0.03	—	252
Architectural Coatings	13.3	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.9
Architectural Coatings	1.79	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.61
Architectural Coatings	0.33	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.23	0.23	0.00	0.06	0.06	0.23	60.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.98	0.06	—	0.06	0.05	—	0.05	—	252
Architectural Coatings	13.3	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.27	0.01	—	0.01	0.01	—	0.01	—	33.9
Architectural Coatings	1.79	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.61
Architectural Coatings	0.33	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.23	0.23	0.00	0.06	0.06	0.23	60.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.81	0.03	—	0.03	0.03	—	0.03	—	194
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.94
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.17	0.17	0.00	0.04	0.04	< 0.005	40.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.92	0.01	—	0.01	0.01	—	0.01	—	194
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.94
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.17	0.17	0.00	0.04	0.04	< 0.005	40.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.45	0.26	< 0.005	0.23	0.23	< 0.005	0.04	0.04	2.27	657
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.25	0.16	< 0.005	0.15	0.16	< 0.005	0.03	0.03	1.52	435
Total	0.71	0.43	0.01	0.38	0.39	0.01	0.07	0.07	3.79	1,092
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.43	0.31	< 0.005	0.23	0.23	< 0.005	0.04	0.04	0.06	618

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.24	0.19	< 0.005	0.15	0.16	< 0.005	0.03	0.03	0.04	408
Total	0.67	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.10	1,027
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.07	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.15	98.1
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.04	0.03	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	0.10	62.5
Total	0.11	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.25	161

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.45	0.26	< 0.005	0.23	0.23	< 0.005	0.04	0.04	2.27	657
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.25	0.16	< 0.005	0.15	0.16	< 0.005	0.03	0.03	1.52	435
Total	0.71	0.43	0.01	0.38	0.39	0.01	0.07	0.07	3.79	1,092
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	0.43	0.31	< 0.005	0.23	0.23	< 0.005	0.04	0.04	0.06	618
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.24	0.19	< 0.005	0.15	0.16	< 0.005	0.03	0.03	0.04	408
Total	0.67	0.50	0.01	0.38	0.39	0.01	0.07	0.07	0.10	1,027
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.07	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.15	98.1
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.04	0.03	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	0.10	62.5
Total	0.11	0.08	< 0.005	0.07	0.07	< 0.005	0.01	0.01	0.25	161

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	133
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	4.33
Parking Lot	—	—	—	—	—	—	—	—	—	0.00

Strip Mall	—	—	—	—	—	—	—	—	—	12.4
Total	—	—	—	—	—	—	—	—	—	150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	133
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	4.33
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	12.4
Total	—	—	—	—	—	—	—	—	—	150
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	22.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.72
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	2.05
Total	—	—	—	—	—	—	—	—	—	24.8

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	133

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	4.33
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	12.4
Total	—	—	—	—	—	—	—	—	—	150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	133
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	4.33
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	12.4
Total	—	—	—	—	—	—	—	—	—	150
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	22.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.72
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	2.05
Total	—	—	—	—	—	—	—	—	—	24.8

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	1.01	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.27	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Total	1.45	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	1.01	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Total	1.19	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	0.18	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64
Total	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	1.01	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.27	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Total	1.45	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.85
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	1.01	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.18	—	—	—	—	—	—	—	—	—
Total	1.19	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	0.18	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64
Total	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.64

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	11.3
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	1.26
Total	—	—	—	—	—	—	—	—	—	12.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	11.3
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	1.26
Total	—	—	—	—	—	—	—	—	—	12.5
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1.87
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	0.21
Total	—	—	—	—	—	—	—	—	—	2.07

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	11.3
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	1.26
Total	—	—	—	—	—	—	—	—	—	12.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	11.3
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	1.26
Total	—	—	—	—	—	—	—	—	—	12.5
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1.87

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	0.21
Total	—	—	—	—	—	—	—	—	—	2.07

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	63.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	4.86
Total	—	—	—	—	—	—	—	—	—	67.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	63.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	4.86

Total	—	—	—	—	—	—	—	—	—	67.8
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	10.4
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	0.80
Total	—	—	—	—	—	—	—	—	—	11.2

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	63.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	4.86
Total	—	—	—	—	—	—	—	—	—	67.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	63.0
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	4.86
Total	—	—	—	—	—	—	—	—	—	67.8
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	10.4
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	0.80
Total	—	—	—	—	—	—	—	—	—	11.2

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.32	0.32
Strip Mall	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	0.33	0.33
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.32	0.32
Strip Mall	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	0.33	0.33

Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	0.06	0.06

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.32	0.32
Strip Mall	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	0.33	0.33
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.32	0.32
Strip Mall	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	0.33	0.33
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	0.06	0.06

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2024	11/10/2024	5.00	29.0	—
Grading	Grading	11/10/2024	12/24/2024	5.00	32.0	—
Building Construction	Building Construction	4/24/2025	6/24/2025	5.00	44.0	—
Paving	Paving	8/30/2025	9/30/2025	5.00	22.0	—
Architectural Coating	Architectural Coating	6/24/2025	8/30/2025	5.00	49.0	—
Trenching/Foundation	Trenching	1/24/2025	2/24/2025	5.00	22.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	3.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	2.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	5.00	367	0.40
Grading	Graders	Diesel	Average	1.00	2.50	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.90	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	4.50	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	5.30	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	0.50	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	0.30	84.0	0.37
Building Construction	Generator Sets	Diesel	Average	1.00	0.20	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	0.20	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.40	10.0	0.56
Paving	Rollers	Diesel	Average	1.00	4.40	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	5.50	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	1.00	7.00	46.0	0.31
Trenching/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	4.30	84.0	0.37
Trenching/Foundation	Excavators	Diesel	Average	1.00	2.10	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Site Preparation	Graders	Diesel	Tier 4 Interim	1.00	3.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	2.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	5.00	367	0.40
Grading	Graders	Diesel	Tier 4 Interim	1.00	2.50	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	1.90	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	4.50	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	5.30	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	0.50	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	0.30	84.0	0.37
Building Construction	Generator Sets	Diesel	Average	1.00	0.20	14.0	0.74
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	0.20	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.40	10.0	0.56
Paving	Rollers	Diesel	Tier 4 Interim	1.00	4.40	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	5.50	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	1.00	7.00	46.0	0.31
Trenching/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	4.30	84.0	0.37
Trenching/Foundation	Excavators	Diesel	Tier 4 Interim	1.00	2.10	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	11.7	LDA,LDT1,LDT2

Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	5.88	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	34.5	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	5.72	8.40	HHDT,MHDT
Building Construction	Hauling	0.42	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	5.00	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	2.71	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.90	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation	—	—	—	—
Trenching/Foundation	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching/Foundation	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation	Hauling	0.00	20.0	HHDT

Trenching/Foundation	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	5.88	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	34.5	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	5.72	8.40	HHDT,MHDT
Building Construction	Hauling	0.42	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	5.00	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	2.71	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.90	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation	—	—	—	—
Trenching/Foundation	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching/Foundation	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation	Hauling	0.00	20.0	HHDT
Trenching/Foundation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	90,325	30,108	3,681	1,227	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	14.5	0.00	—
Grading	1,300	200	8.80	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Unenclosed Parking with Elevator	0.00	100%
Parking Lot	0.00	100%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	809	0.03	< 0.005
2025	0.00	809	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	151	136	113	52,443	835	753	626	289,674
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	82.0	77.8	37.8	27,402	557	528	257	186,070

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	151	136	113	52,443	835	753	626	289,674
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	82.0	77.8	37.8	27,402	557	528	257	186,070

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0

Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
90325.125	30,108	3,681	1,227	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	269,625	178	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	8,770	178	0.0330	0.0040	0.00
Parking Lot	0.00	178	0.0330	0.0040	0.00
Strip Mall	25,068	178	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	269,625	178	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	8,770	178	0.0330	0.0040	0.00
Parking Lot	0.00	178	0.0330	0.0040	0.00
Strip Mall	25,068	178	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	1,631,988	0.00
Unenclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00
Strip Mall	181,774	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Apartments Mid Rise	1,631,988	0.00
Unenclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00
Strip Mall	181,774	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	33.4	—
Unenclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—
Strip Mall	2.58	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	33.4	—
Unenclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—
Strip Mall	2.58	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	2.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	20.8
AQ-PM	37.3
AQ-DPM	78.4
Drinking Water	22.7
Lead Risk Housing	83.0
Pesticides	0.00
Toxic Releases	33.0
Traffic	87.7
Effect Indicators	—
CleanUp Sites	62.0
Groundwater	73.8

Haz Waste Facilities/Generators	28.3
Impaired Water Bodies	33.2
Solid Waste	85.2
Sensitive Population	—
Asthma	61.0
Cardio-vascular	31.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	79.7
Housing	62.4
Linguistic	93.8
Poverty	65.9
Unemployment	29.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	31.10483767
Employed	68.92082638
Median HI	25.20210445
Education	—
Bachelor's or higher	24.38085461
High school enrollment	100
Preschool enrollment	50.42987296
Transportation	—
Auto Access	16.36083665

Active commuting	63.9291672
Social	—
2-parent households	24.00872578
Voting	46.16963942
Neighborhood	—
Alcohol availability	9.444373155
Park access	81.35506224
Retail density	51.84139612
Supermarket access	80.12318748
Tree canopy	79.67406647
Housing	—
Homeownership	16.25818042
Housing habitability	15.10329783
Low-inc homeowner severe housing cost burden	12.43423585
Low-inc renter severe housing cost burden	63.54420634
Uncrowded housing	6.800975234
Health Outcomes	—
Insured adults	22.55870653
Arthritis	53.0
Asthma ER Admissions	47.1
High Blood Pressure	52.5
Cancer (excluding skin)	85.3
Asthma	12.1
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	19.2
Diagnosed Diabetes	18.3
Life Expectancy at Birth	33.7

Cognitively Disabled	24.2
Physically Disabled	65.4
Heart Attack ER Admissions	61.9
Mental Health Not Good	11.0
Chronic Kidney Disease	20.1
Obesity	15.8
Pedestrian Injuries	63.6
Physical Health Not Good	12.4
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	78.7
Current Smoker	13.8
No Leisure Time for Physical Activity	11.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	80.0
English Speaking	7.6
Foreign-born	88.9
Outdoor Workers	3.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	37.7
Traffic Density	90.0
Traffic Access	87.4
Other Indices	—
Hardship	78.2

Other Decision Support	—
2016 Voting	28.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Land uses, total lot acreage, square footages, and total number of parking spaces provided by project applicant in construction worksheet.
Construction: Construction Phases	No demolition phase. Construction schedule from filled out construction worksheet provided by project applicant.

Construction: Off-Road Equipment	Construction equipment and hours provided by filled out construction worksheet from project applicant.
Construction: Trips and VMT	Building construction = 37 concrete truck round trips (0.425 trips/day), Paving = 270-cy of concrete (2.708 trips/day).
Construction: On-Road Fugitive Dust	Road silt loading factor = 0.5 g/m2. Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with reduction adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code - convert natural gas to electric.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

22-012 1325 E. Julian T4i 2029 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1325 E. Julian T4i 2029
Construction Start Date	1/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1325 E Julian St, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments Mid Rise	633	Dwelling Unit	3.00	533,537	0.00	0.00	1,893	—
Strip Mall	11.4	1000sqft	0.00	11,437	0.00	0.00	—	—
Enclosed Parking with Elevator	174	Space	0.00	90,512	0.00	0.00	—	—
Parking Lot	8.00	Space	0.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	25.8	10.8	0.19	23.4	23.6	0.18	5.79	5.97	23.3	9,567
Mit.	25.4	11.8	0.21	23.4	23.6	0.19	5.79	5.99	23.3	9,567
% Reduced	2%	-10%	-8%	—	> -0.5%	-9%	—	> -0.5%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	25.7	17.6	0.47	23.8	24.0	0.39	5.90	6.06	0.61	9,814
Mit.	25.3	15.0	0.21	23.8	24.0	0.19	5.90	6.08	0.61	9,814
% Reduced	2%	15%	55%	—	> -0.5%	51%	—	> -0.5%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	18.3	7.91	0.14	16.7	16.8	0.13	4.13	4.26	7.19	6,602

Mit.	18.1	8.65	0.15	16.7	16.8	0.14	4.13	4.27	7.19	6,602
% Reduced	2%	-9%	-8%	—	> -0.5%	-9%	—	> -0.5%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.35	1.44	0.02	3.05	3.07	0.02	0.75	0.78	1.19	1,093
Mit.	3.30	1.58	0.03	3.05	3.07	0.03	0.75	0.78	1.19	1,093
% Reduced	2%	-9%	-8%	—	> -0.5%	-9%	—	> -0.5%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.53	4.35	0.17	0.75	0.92	0.16	0.18	0.34	0.73	914
2026	2.06	8.24	0.16	20.5	20.7	0.15	5.09	5.24	23.3	8,539
2027	25.8	10.8	0.19	23.4	23.6	0.18	5.79	5.97	23.3	9,567
2028	25.7	10.2	0.17	23.4	23.6	0.15	5.79	5.94	20.9	9,348
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	1.08	17.6	0.47	9.44	9.91	0.39	2.67	3.07	0.48	9,814
2026	1.80	14.1	0.27	20.0	20.2	0.26	4.96	5.11	0.59	9,153
2027	25.7	11.2	0.19	23.4	23.6	0.18	5.79	5.97	0.61	9,185
2028	25.7	11.1	0.18	23.8	24.0	0.16	5.90	6.06	0.55	9,185
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	0.14	2.18	0.06	1.11	1.17	0.05	0.31	0.36	0.96	1,192
2026	0.87	4.06	0.08	9.72	9.80	0.07	2.41	2.48	4.79	3,935
2027	18.3	7.91	0.14	16.7	16.8	0.13	4.13	4.26	7.19	6,602
2028	4.71	2.38	0.04	5.43	5.47	0.03	1.35	1.38	2.11	2,111
Annual	—	—	—	—	—	—	—	—	—	—

2025	0.03	0.40	0.01	0.20	0.21	0.01	0.06	0.06	0.16	197
2026	0.16	0.74	0.01	1.77	1.79	0.01	0.44	0.45	0.79	651
2027	3.35	1.44	0.02	3.05	3.07	0.02	0.75	0.78	1.19	1,093
2028	0.86	0.43	0.01	0.99	1.00	0.01	0.25	0.25	0.35	350

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.16	2.76	0.04	0.75	0.79	0.04	0.18	0.22	0.73	914
2026	1.85	7.99	0.10	20.5	20.6	0.09	5.09	5.18	23.3	8,539
2027	25.4	11.8	0.21	23.4	23.6	0.19	5.79	5.99	23.3	9,567
2028	25.3	11.4	0.21	23.4	23.6	0.18	5.79	5.97	20.9	9,348
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.46	15.0	0.19	9.44	9.63	0.14	2.67	2.81	0.48	9,814
2026	1.60	13.2	0.14	20.0	20.1	0.14	4.96	5.05	0.59	9,153
2027	25.3	12.2	0.21	23.4	23.6	0.19	5.79	5.99	0.61	9,185
2028	25.3	12.4	0.21	23.8	24.0	0.18	5.90	6.08	0.55	9,185
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	0.06	1.84	0.02	1.11	1.13	0.02	0.31	0.32	0.96	1,192
2026	0.77	3.93	0.05	9.72	9.77	0.04	2.41	2.45	4.79	3,935
2027	18.1	8.65	0.15	16.7	16.8	0.14	4.13	4.27	7.19	6,602
2028	4.63	2.60	0.04	5.43	5.47	0.04	1.35	1.38	2.11	2,111
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.34	< 0.005	0.20	0.21	< 0.005	0.06	0.06	0.16	197
2026	0.14	0.72	0.01	1.77	1.78	0.01	0.44	0.45	0.79	651

2027	3.30	1.58	0.03	3.05	3.07	0.03	0.75	0.78	1.19	1,093
2028	0.85	0.47	0.01	0.99	1.00	0.01	0.25	0.25	0.35	350

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	24.5	4.28	0.08	10.5	10.6	0.08	2.67	2.75	32.1	14,400
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	20.4	4.57	0.06	10.5	10.6	0.06	2.67	2.73	4.62	13,633
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	21.8	4.25	0.07	9.96	10.0	0.07	2.52	2.59	15.4	13,200
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.98	0.78	0.01	1.82	1.83	0.01	0.46	0.47	2.55	2,185

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	6.91	3.91	0.06	10.5	10.6	0.06	2.67	2.73	28.2	11,119
Area	17.6	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905

Refrig.	—	—	—	—	—	—	—	—	3.89	3.89
Total	24.5	4.28	0.08	10.5	10.6	0.08	2.67	2.75	32.1	14,400
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	6.61	4.57	0.06	10.5	10.6	0.06	2.67	2.73	0.73	10,466
Area	13.8	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905
Refrig.	—	—	—	—	—	—	—	—	3.89	3.89
Total	20.4	4.57	0.06	10.5	10.6	0.06	2.67	2.73	4.62	13,633
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	6.17	4.07	0.06	9.96	10.0	0.06	2.52	2.58	11.5	9,976
Area	15.6	0.18	0.01	—	0.01	0.01	—	0.01	—	56.5
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905
Refrig.	—	—	—	—	—	—	—	—	3.89	3.89
Total	21.8	4.25	0.07	9.96	10.0	0.07	2.52	2.59	15.4	13,200
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	1.13	0.74	0.01	1.82	1.83	0.01	0.46	0.47	1.90	1,652
Area	2.86	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	347
Water	—	—	—	—	—	—	—	—	—	27.2
Waste	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	0.64	0.64
Total	3.98	0.78	0.01	1.82	1.83	0.01	0.46	0.47	2.55	2,185

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	6.91	3.91	0.06	10.5	10.6	0.06	2.67	2.73	28.2	11,119
Area	17.6	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905
Refrig.	—	—	—	—	—	—	—	—	3.89	3.89
Total	24.5	4.28	0.08	10.5	10.6	0.08	2.67	2.75	32.1	14,400
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	6.61	4.57	0.06	10.5	10.6	0.06	2.67	2.73	0.73	10,466
Area	13.8	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905
Refrig.	—	—	—	—	—	—	—	—	3.89	3.89
Total	20.4	4.57	0.06	10.5	10.6	0.06	2.67	2.73	4.62	13,633
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	6.17	4.07	0.06	9.96	10.0	0.06	2.52	2.58	11.5	9,976
Area	15.6	0.18	0.01	—	0.01	0.01	—	0.01	—	56.5
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,093
Water	—	—	—	—	—	—	—	—	—	164
Waste	—	—	—	—	—	—	—	—	—	905
Refrig.	—	—	—	—	—	—	—	—	3.89	3.89

Total	21.8	4.25	0.07	9.96	10.0	0.07	2.52	2.59	15.4	13,200
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	1.13	0.74	0.01	1.82	1.83	0.01	0.46	0.47	1.90	1,652
Area	2.86	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	347
Water	—	—	—	—	—	—	—	—	—	27.2
Waste	—	—	—	—	—	—	—	—	—	150
Refrig.	—	—	—	—	—	—	—	—	0.64	0.64
Total	3.98	0.78	0.01	1.82	1.83	0.01	0.46	0.47	2.55	2,185

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.17	—	0.17	0.16	—	0.16	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.17	—	0.17	0.16	—	0.16	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.27	0.01	—	0.01	0.01	—	0.01	—	44.9
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.68	174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	0.02	0.02	< 0.005	0.01	0.01	0.06	26.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.00	0.68	0.68	0.00	0.17	0.17	0.02	161
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	0.02	0.02	< 0.005	0.01	0.01	< 0.005	26.8
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.04	0.04	0.00	0.01	0.01	0.02	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.69
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.68	0.04	—	0.04	0.04	—	0.04	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.68	0.04	—	0.04	0.04	—	0.04	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.9
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.68	174
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	0.02	0.02	< 0.005	0.01	0.01	0.06	26.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.00	0.68	0.68	0.00	0.17	0.17	0.02	161
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.03	< 0.005	0.02	0.02	< 0.005	0.01	0.01	< 0.005	26.8
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.04	0.04	0.00	0.01	0.01	0.02	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.69
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.10	0.14	—	0.14	0.13	—	0.13	—	542

Dust From Material Movement	—	—	—	0.62	0.62	—	0.30	0.30	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.01	—	0.01	0.01	—	0.01	—	34.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.51	0.51	0.00	0.13	0.13	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.68	0.01	—	0.01	0.01	—	0.01	—	542
Dust From Material Movement	—	—	—	0.62	0.62	—	0.30	0.30	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.1
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.51	0.51	0.00	0.13	0.13	0.01	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	7.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.12	0.18	—	0.18	0.17	—	0.17	—	727

Dust From Material Movement	—	—	—	0.62	0.62	—	0.28	0.28	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.49	0.02	—	0.02	0.02	—	0.02	—	86.8
Dust From Material Movement	—	—	—	0.07	0.07	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.00	0.85	0.85	0.00	0.21	0.21	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	10.3	0.14	6.85	6.99	0.10	1.76	1.86	0.44	8,223
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.10	0.10	0.00	0.02	0.02	0.04	24.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.21	0.02	0.82	0.83	0.01	0.21	0.22	0.88	982
Annual	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.22	< 0.005	0.15	0.15	< 0.005	0.04	0.04	0.15	163

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.89	0.04	—	0.04	0.03	—	0.03	—	727
Dust From Material Movement	—	—	—	0.62	0.62	—	0.28	0.28	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.34	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	86.8
Dust From Material Movement	—	—	—	0.07	0.07	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.00	0.85	0.85	0.00	0.21	0.21	0.02	201
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	10.3	0.14	6.85	6.99	0.10	1.76	1.86	0.44	8,223
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.10	0.10	0.00	0.02	0.02	0.04	24.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.21	0.02	0.82	0.83	0.01	0.21	0.22	0.88	982
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.01	4.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.22	< 0.005	0.15	0.15	< 0.005	0.04	0.04	0.15	163

3.7. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	3.79	0.16	—	0.16	0.15	—	0.15	—	727

Dust From Material Movement	—	—	—	0.62	0.62	—	0.28	0.28	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.42
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.24
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.00	0.85	0.85	0.00	0.21	0.21	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	9.95	0.10	6.85	6.94	0.10	1.76	1.86	0.42	8,065
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	15.8
Annual	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.61

3.8. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.89	0.04	—	0.04	0.03	—	0.03	—	727
Dust From Material Movement	—	—	—	0.62	0.62	—	0.28	0.28	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.42
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.24
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.00	0.85	0.85	0.00	0.21	0.21	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.16	9.95	0.10	6.85	6.94	0.10	1.76	1.86	0.42	8,065
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.39
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01	15.8
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.61

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.88	0.11	—	0.11	0.10	—	0.10	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.33	2.88	0.11	—	0.11	0.10	—	0.10	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.38	0.05	—	0.05	0.05	—	0.05	—	330
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.25	0.01	—	0.01	0.01	—	0.01	—	54.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.57	1.05	0.00	16.9	16.9	0.00	4.17	4.17	15.3	4,248
Vendor	0.07	2.77	0.03	2.16	2.19	0.03	0.55	0.59	5.45	2,343
Hauling	0.02	1.27	0.01	0.92	0.93	0.01	0.24	0.25	2.15	1,087
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.39	1.38	0.00	16.9	16.9	0.00	4.17	4.17	0.40	3,929
Vendor	0.06	2.94	0.03	2.16	2.19	0.03	0.55	0.59	0.14	2,339
Hauling	0.02	1.34	0.01	0.92	0.93	0.01	0.24	0.25	0.06	1,086
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.58	0.00	8.11	8.11	0.00	2.00	2.00	3.16	1,905
Vendor	0.03	1.38	0.01	1.03	1.05	0.01	0.27	0.28	1.12	1,122
Hauling	0.01	0.63	0.01	0.44	0.45	0.01	0.11	0.12	0.45	521
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.00	1.48	1.48	0.00	0.36	0.36	0.52	315
Vendor	0.01	0.25	< 0.005	0.19	0.19	< 0.005	0.05	0.05	0.19	186

Hauling	< 0.005	0.11	< 0.005	0.08	0.08	< 0.005	0.02	0.02	0.07	86.2

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.25	0.02	—	0.02	0.02	—	0.02	—	330
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.57	1.05	0.00	16.9	16.9	0.00	4.17	4.17	15.3	4,248
Vendor	0.07	2.77	0.03	2.16	2.19	0.03	0.55	0.59	5.45	2,343
Hauling	0.02	1.27	0.01	0.92	0.93	0.01	0.24	0.25	2.15	1,087

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.39	1.38	0.00	16.9	16.9	0.00	4.17	4.17	0.40	3,929
Vendor	0.06	2.94	0.03	2.16	2.19	0.03	0.55	0.59	0.14	2,339
Hauling	0.02	1.34	0.01	0.92	0.93	0.01	0.24	0.25	0.06	1,086
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.58	0.00	8.11	8.11	0.00	2.00	2.00	3.16	1,905
Vendor	0.03	1.38	0.01	1.03	1.05	0.01	0.27	0.28	1.12	1,122
Hauling	0.01	0.63	0.01	0.44	0.45	0.01	0.11	0.12	0.45	521
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.00	1.48	1.48	0.00	0.36	0.36	0.52	315
Vendor	0.01	0.25	< 0.005	0.19	0.19	< 0.005	0.05	0.05	0.19	186
Hauling	< 0.005	0.11	< 0.005	0.08	0.08	< 0.005	0.02	0.02	0.07	86.2

3.11. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.76	0.10	—	0.10	0.09	—	0.09	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.76	0.10	—	0.10	0.09	—	0.09	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	1.97	0.07	—	0.07	0.07	—	0.07	—	491
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.01	—	0.01	0.01	—	0.01	—	81.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.38	1.04	0.00	16.9	16.9	0.00	4.17	4.17	13.8	4,170
Vendor	0.07	2.65	0.03	2.16	2.19	0.03	0.55	0.59	4.83	2,296
Hauling	0.02	1.22	0.01	0.92	0.93	0.01	0.24	0.25	1.98	1,062
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.23	0.00	16.9	16.9	0.00	4.17	4.17	0.36	3,855
Vendor	0.06	2.78	0.03	2.16	2.19	0.03	0.55	0.59	0.13	2,294
Hauling	0.02	1.29	0.01	0.92	0.93	0.01	0.24	0.25	0.05	1,060
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.86	0.00	12.1	12.1	0.00	2.97	2.97	4.25	2,787
Vendor	0.05	1.95	0.02	1.54	1.56	0.02	0.40	0.42	1.49	1,639
Hauling	0.02	0.90	0.01	0.66	0.67	0.01	0.17	0.18	0.61	758
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.00	2.21	2.21	0.00	0.54	0.54	0.70	461
Vendor	0.01	0.36	< 0.005	0.28	0.28	< 0.005	0.07	0.08	0.25	271
Hauling	< 0.005	0.17	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.10	125

3.12. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	1.85	0.03	—	0.03	0.03	—	0.03	—	491
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.34	0.01	—	0.01	0.01	—	0.01	—	81.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.38	1.04	0.00	16.9	16.9	0.00	4.17	4.17	13.8	4,170
Vendor	0.07	2.65	0.03	2.16	2.19	0.03	0.55	0.59	4.83	2,296
Hauling	0.02	1.22	0.01	0.92	0.93	0.01	0.24	0.25	1.98	1,062
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.23	0.00	16.9	16.9	0.00	4.17	4.17	0.36	3,855
Vendor	0.06	2.78	0.03	2.16	2.19	0.03	0.55	0.59	0.13	2,294

Hauling	0.02	1.29	0.01	0.92	0.93	0.01	0.24	0.25	0.05	1,060
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.86	0.00	12.1	12.1	0.00	2.97	2.97	4.25	2,787
Vendor	0.05	1.95	0.02	1.54	1.56	0.02	0.40	0.42	1.49	1,639
Hauling	0.02	0.90	0.01	0.66	0.67	0.01	0.17	0.18	0.61	758
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.00	2.21	2.21	0.00	0.54	0.54	0.70	461
Vendor	0.01	0.36	< 0.005	0.28	0.28	< 0.005	0.07	0.08	0.25	271
Hauling	< 0.005	0.17	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.10	125

3.13. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.61	0.09	—	0.09	0.08	—	0.08	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.61	0.09	—	0.09	0.08	—	0.08	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.62	0.02	—	0.02	0.02	—	0.02	—	164
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.32	0.90	0.00	16.9	16.9	0.00	4.17	4.17	12.4	4,058
Vendor	0.07	2.51	0.03	2.16	2.19	0.02	0.55	0.57	4.27	2,237
Hauling	0.02	1.18	0.01	0.92	0.93	0.01	0.24	0.25	1.81	1,035
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.28	1.22	0.00	16.9	16.9	0.00	4.17	4.17	0.32	3,789
Vendor	0.06	2.66	0.03	2.16	2.19	0.02	0.55	0.57	0.11	2,235
Hauling	0.02	1.24	0.01	0.92	0.93	0.01	0.24	0.25	0.05	1,034
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.25	0.00	4.04	4.04	0.00	0.99	0.99	1.27	915
Vendor	0.02	0.62	0.01	0.51	0.52	< 0.005	0.13	0.14	0.44	534
Hauling	0.01	0.29	< 0.005	0.22	0.22	< 0.005	0.06	0.06	0.19	247
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.74	0.74	0.00	0.18	0.18	0.21	152
Vendor	< 0.005	0.11	< 0.005	0.09	0.10	< 0.005	0.02	0.02	0.07	88.4
Hauling	< 0.005	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.03	40.9

3.14. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	2.59	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.59	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.62	0.01	—	0.01	0.01	—	0.01	—	164
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.32	0.90	0.00	16.9	16.9	0.00	4.17	4.17	12.4	4,058
Vendor	0.07	2.51	0.03	2.16	2.19	0.02	0.55	0.57	4.27	2,237
Hauling	0.02	1.18	0.01	0.92	0.93	0.01	0.24	0.25	1.81	1,035
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.28	1.22	0.00	16.9	16.9	0.00	4.17	4.17	0.32	3,789
Vendor	0.06	2.66	0.03	2.16	2.19	0.02	0.55	0.57	0.11	2,235
Hauling	0.02	1.24	0.01	0.92	0.93	0.01	0.24	0.25	0.05	1,034
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.25	0.00	4.04	4.04	0.00	0.99	0.99	1.27	915
Vendor	0.02	0.62	0.01	0.51	0.52	< 0.005	0.13	0.14	0.44	534

Hauling	0.01	0.29	< 0.005	0.22	0.22	< 0.005	0.06	0.06	0.19	247
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.74	0.74	0.00	0.18	0.18	0.21	152
Vendor	< 0.005	0.11	< 0.005	0.09	0.10	< 0.005	0.02	0.02	0.07	88.4
Hauling	< 0.005	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.03	40.9

3.15. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.28	0.01	—	0.01	0.01	—	0.01	—	68.3
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.01	95.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	11.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.43	0.43	0.00	0.10	0.10	0.01	95.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	11.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.87	0.05	—	0.05	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.87	0.05	—	0.05	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	2.05	0.03	—	0.03	0.03	—	0.03	—	370
Architectural Coatings	16.7	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.01	—	0.01	0.01	—	0.01	—	61.3
Architectural Coatings	3.05	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.00	3.39	3.39	0.00	0.83	0.83	2.76	834
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	3.39	3.39	0.00	0.83	0.83	0.07	771
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.00	2.42	2.42	0.00	0.59	0.59	0.85	557
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.44	0.44	0.00	0.11	0.11	0.14	92.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.91	0.08	—	0.08	0.08	—	0.08	—	370
Architectural Coatings	16.7	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.53	0.02	—	0.02	0.01	—	0.01	—	61.3
Architectural Coatings	3.05	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.21	0.00	3.39	3.39	0.00	0.83	0.83	2.76	834
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.00	3.39	3.39	0.00	0.83	0.83	0.07	771
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.00	2.42	2.42	0.00	0.59	0.59	0.85	557

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.00	0.44	0.44	0.00	0.11	0.11	0.14	92.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.83	0.04	—	0.04	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.83	0.04	—	0.04	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.51	0.01	—	0.01	0.01	—	0.01	—	93.3
Architectural Coatings	4.22	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.4
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.18	0.00	3.39	3.39	0.00	0.83	0.83	2.48	812
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.00	3.39	3.39	0.00	0.83	0.83	0.06	758
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.00	0.61	0.61	0.00	0.15	0.15	0.19	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.11	0.11	0.00	0.03	0.03	0.03	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.73	0.02	—	0.02	0.02	—	0.02	—	93.3
Architectural Coatings	4.22	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.13	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.4
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.26	0.18	0.00	3.39	3.39	0.00	0.83	0.83	2.48	812
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.24	0.00	3.39	3.39	0.00	0.83	0.83	0.06	758
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.00	0.61	0.61	0.00	0.15	0.15	0.19	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.11	0.11	0.00	0.03	0.03	0.03	22.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.51	0.51	0.00	0.13	0.13	0.46	128
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.05	28.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	4.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.26	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.26	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.51	0.51	0.00	0.13	0.13	0.46	128
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.05	28.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	4.73
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.88	3.27	0.05	8.71	8.76	0.05	2.21	2.26	23.3	9,196
Strip Mall	1.04	0.64	0.01	1.83	1.85	0.01	0.47	0.47	4.90	1,922
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.91	3.91	0.06	10.5	10.6	0.06	2.67	2.73	28.2	11,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.62	3.83	0.05	8.71	8.76	0.05	2.21	2.26	0.60	8,658
Strip Mall	0.99	0.75	0.01	1.83	1.85	0.01	0.47	0.47	0.13	1,808
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.61	4.57	0.06	10.5	10.6	0.06	2.67	2.73	0.73	10,466
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.96	0.62	0.01	1.51	1.52	0.01	0.38	0.39	1.58	1,375
Strip Mall	0.16	0.12	< 0.005	0.31	0.31	< 0.005	0.08	0.08	0.32	277
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.13	0.74	0.01	1.82	1.83	0.01	0.46	0.47	1.90	1,652

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.88	3.27	0.05	8.71	8.76	0.05	2.21	2.26	23.3	9,196
Strip Mall	1.04	0.64	0.01	1.83	1.85	0.01	0.47	0.47	4.90	1,922

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.91	3.91	0.06	10.5	10.6	0.06	2.67	2.73	28.2	11,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	5.62	3.83	0.05	8.71	8.76	0.05	2.21	2.26	0.60	8,658
Strip Mall	0.99	0.75	0.01	1.83	1.85	0.01	0.47	0.47	0.13	1,808
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.61	4.57	0.06	10.5	10.6	0.06	2.67	2.73	0.73	10,466
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.96	0.62	0.01	1.51	1.52	0.01	0.38	0.39	1.58	1,375
Strip Mall	0.16	0.12	< 0.005	0.31	0.31	< 0.005	0.08	0.08	0.32	277
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.13	0.74	0.01	1.82	1.83	0.01	0.46	0.47	1.90	1,652

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1,871
Strip Mall	—	—	—	—	—	—	—	—	—	57.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	165
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	2,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1,871
Strip Mall	—	—	—	—	—	—	—	—	—	57.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	165
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	2,093
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	310
Strip Mall	—	—	—	—	—	—	—	—	—	9.54
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	27.3
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	347

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1,871
Strip Mall	—	—	—	—	—	—	—	—	—	57.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	165
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	2,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	1,871
Strip Mall	—	—	—	—	—	—	—	—	—	57.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	165
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	2,093
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	310
Strip Mall	—	—	—	—	—	—	—	—	—	9.54
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	27.3
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	347

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	11.7	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.09	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.84	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Total	17.6	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	11.7	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.09	—	—	—	—	—	—	—	—	—
Total	13.8	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Consumer Products	2.13	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36
Total	2.86	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	11.7	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.09	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.84	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Total	17.6	0.37	0.02	—	0.02	0.02	—	0.02	—	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	11.7	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.09	—	—	—	—	—	—	—	—	—
Total	13.8	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Consumer Products	2.13	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.38	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36
Total	2.86	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	159
Strip Mall	—	—	—	—	—	—	—	—	—	5.85
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	164
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	159
Strip Mall	—	—	—	—	—	—	—	—	—	5.85
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	164
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	26.2
Strip Mall	—	—	—	—	—	—	—	—	—	0.97
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	27.2

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	159
Strip Mall	—	—	—	—	—	—	—	—	—	5.85
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	164
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	159
Strip Mall	—	—	—	—	—	—	—	—	—	5.85

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	164
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	26.2
Strip Mall	—	—	—	—	—	—	—	—	—	0.97
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	27.2

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	883
Strip Mall	—	—	—	—	—	—	—	—	—	22.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	905

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	883
Strip Mall	—	—	—	—	—	—	—	—	—	22.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	905
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	146
Strip Mall	—	—	—	—	—	—	—	—	—	3.75
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	150

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	883
Strip Mall	—	—	—	—	—	—	—	—	—	22.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	905
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	883
Strip Mall	—	—	—	—	—	—	—	—	—	22.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	905
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	146
Strip Mall	—	—	—	—	—	—	—	—	—	3.75
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	150

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.82	3.82

Strip Mall	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	3.89	3.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.82	3.82
Strip Mall	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	3.89	3.89
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.63	0.63
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.64	0.64

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.82	3.82
Strip Mall	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	3.89	3.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	3.82	3.82
Strip Mall	—	—	—	—	—	—	—	—	0.07	0.07
Total	—	—	—	—	—	—	—	—	3.89	3.89
Annual	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	0.63	0.63
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	0.64	0.64

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/1/2025	10/1/2025	5.00	23.0	—
Site Preparation	Site Preparation	10/1/2025	11/1/2025	5.00	23.0	—
Grading	Grading	11/1/2025	1/1/2026	5.00	44.0	—
Building Construction	Building Construction	5/1/2026	5/1/2028	5.00	522	—
Paving	Paving	1/1/2028	3/1/2028	5.00	43.0	—
Architectural Coating	Architectural Coating	1/1/2027	4/1/2028	5.00	326	—
Trenching/Foundation/Garage	Trenching	1/1/2026	5/1/2026	5.00	87.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	1.30	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	1.30	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.70	84.0	0.37
Demolition	Excavators	Diesel	Average	2.00	1.70	36.0	0.38
Site Preparation	Graders	Diesel	Average	2.00	0.80	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.60	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	0.90	367	0.40
Grading	Graders	Diesel	Average	2.00	1.60	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	0.80	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.60	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	1.60	36.0	0.38

Grading	Concrete/Industrial Saws	Diesel	Average	2.00	0.80	33.0	0.73
Building Construction	Cranes	Diesel	Average	2.00	1.80	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	1.80	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.80	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	0.90	84.0	0.37
Building Construction	Welders	Diesel	Average	4.00	0.90	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	0.40	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	0.40	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	0.40	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	0.40	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	4.00	2.90	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	2.00	7.00	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Average	2.00	0.30	84.0	0.37
Trenching/Foundation/Garage	Excavators	Diesel	Average	2.00	0.30	36.0	0.38
Trenching/Foundation/Garage	Pumps	Diesel	Average	2.00	0.60	11.0	0.74

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	1.30	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.30	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.70	84.0	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	2.00	1.70	36.0	0.38

Site Preparation	Graders	Diesel	Tier 4 Interim	2.00	0.80	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.60	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	0.90	367	0.40
Grading	Graders	Diesel	Tier 4 Interim	2.00	1.60	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	0.80	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.60	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	2.00	1.60	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	0.80	33.0	0.73
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	1.80	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	1.80	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.80	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.90	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	4.00	0.90	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	0.40	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	1.00	0.40	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	0.40	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	0.40	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	4.00	2.90	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	2.00	7.00	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.30	84.0	0.37
Trenching/Foundation/Garage	Excavators	Diesel	Tier 4 Interim	2.00	0.30	36.0	0.38
Trenching/Foundation/Garage	Pumps	Diesel	Average	2.00	0.60	11.0	0.74

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	0.36	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	109	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	497	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	84.4	8.40	HHDT,MHDT
Building Construction	Hauling	14.7	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	99.5	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	15.0	11.7	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	20.0	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	0.36	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	11.7	LDA,LDT1,LDT2

Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	109	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	497	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	84.4	8.40	HHDT,MHDT
Building Construction	Hauling	14.7	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	11.7	LDA,LDT1,LDT2
Paving	Vendor	—	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	99.5	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	15.0	11.7	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	20.0	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	1,080,412	360,137	17,156	5,719	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,000	—
Site Preparation	—	—	4.89	0.00	—
Grading	500	38,000	13.2	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	809	0.03	< 0.005
2027	0.00	809	0.03	< 0.005
2028	0.00	809	0.03	< 0.005
2025	0.00	809	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	2,234	2,019	1,684	775,651	12,343	11,154	9,301	4,284,412
Strip Mall	383	363	177	128,014	2,601	2,467	1,199	869,256
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	2,234	2,019	1,684	775,651	12,343	11,154	9,301	4,284,412
Strip Mall	383	363	177	128,014	2,601	2,467	1,199	869,256
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
1080412.425	360,137	17,156	5,719	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	3,792,727	178	0.0330	0.0040	0.00
Strip Mall	116,830	178	0.0330	0.0040	0.00
Enclosed Parking with Elevator	334,119	178	0.0330	0.0040	0.00
Parking Lot	0.00	178	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	3,792,727	178	0.0330	0.0040	0.00
Strip Mall	116,830	178	0.0330	0.0040	0.00
Enclosed Parking with Elevator	334,119	178	0.0330	0.0040	0.00
Parking Lot	0.00	178	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	22,956,631	0.00
Strip Mall	847,167	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	22,956,631	0.00
Strip Mall	847,167	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Apartments Mid Rise	468	—
Strip Mall	12.0	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	468	—
Strip Mall	12.0	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	2.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	20.8
AQ-PM	37.3
AQ-DPM	78.4
Drinking Water	22.7
Lead Risk Housing	83.0
Pesticides	0.00
Toxic Releases	33.0
Traffic	87.7
Effect Indicators	—
CleanUp Sites	62.0
Groundwater	73.8
Haz Waste Facilities/Generators	28.3
Impaired Water Bodies	33.2
Solid Waste	85.2
Sensitive Population	—
Asthma	61.0
Cardio-vascular	31.7

Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	79.7
Housing	62.4
Linguistic	93.8
Poverty	65.9
Unemployment	29.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	31.10483767
Employed	68.92082638
Median HI	25.20210445
Education	—
Bachelor's or higher	24.38085461
High school enrollment	100
Preschool enrollment	50.42987296
Transportation	—
Auto Access	16.36083665
Active commuting	63.9291672
Social	—
2-parent households	24.00872578
Voting	46.16963942
Neighborhood	—
Alcohol availability	9.444373155

Park access	81.35506224
Retail density	51.84139612
Supermarket access	80.12318748
Tree canopy	79.67406647
Housing	—
Homeownership	16.25818042
Housing habitability	15.10329783
Low-inc homeowner severe housing cost burden	12.43423585
Low-inc renter severe housing cost burden	63.54420634
Uncrowded housing	6.800975234
Health Outcomes	—
Insured adults	22.55870653
Arthritis	53.0
Asthma ER Admissions	47.1
High Blood Pressure	52.5
Cancer (excluding skin)	85.3
Asthma	12.1
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	19.2
Diagnosed Diabetes	18.3
Life Expectancy at Birth	33.7
Cognitively Disabled	24.2
Physically Disabled	65.4
Heart Attack ER Admissions	61.9
Mental Health Not Good	11.0
Chronic Kidney Disease	20.1
Obesity	15.8

Pedestrian Injuries	63.6
Physical Health Not Good	12.4
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	78.7
Current Smoker	13.8
No Leisure Time for Physical Activity	11.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	80.0
English Speaking	7.6
Foreign-born	88.9
Outdoor Workers	3.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	37.7
Traffic Density	90.0
Traffic Access	87.4
Other Indices	—
Hardship	78.2
Other Decision Support	—
2016 Voting	28.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0

Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Land uses, total lot acreage, square footage, and number of parking spaces provided by project applicant in filled out construction worksheet.
Construction: Construction Phases	Construction schedule provided by filled out construction worksheet from project applicant.
Construction: Off-Road Equipment	Construction equipment quantity and hours provided by filled out cosntruction worksheet from project applicant.
Construction: Trips and VMT	Demolition = 15 tons pavement hauled (0.0714 trips/day), Building construction = 2,400 concrete truck round trips (14.724 trips/day).
Construction: On-Road Fugitive Dust	Road silt loading factor = 0.5 g/m2. Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with trip adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code = no natural gas, convert to electricity.

Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

22-012 1298 Tripp Ave T4i 2030 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1298 Tripp Ave T4i 2030
Construction Start Date	6/1/2025
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1298 Tripp Ave, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Apartments Mid Rise	235	Dwelling Unit	1.49	206,018	0.00	0.00	703	—
Strip Mall	0.82	1000sqft	0.00	821	0.00	0.00	—	—
Enclosed Parking with Elevator	90.0	Space	0.00	44,101	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	18.7	0.67	8.11	8.24	0.62	2.10	2.72	7.22	5,386
Mit.	16.2	14.3	0.20	8.11	8.22	0.19	2.10	2.28	7.22	5,386
% Reduced	1%	23%	71%	—	< 0.5%	70%	—	16%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	21.6	0.55	9.96	10.5	0.51	2.79	3.31	0.43	10,846
Mit.	16.2	20.7	0.29	9.96	10.2	0.28	2.79	3.07	0.43	10,846
% Reduced	1%	4%	47%	—	2%	46%	—	7%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	8.08	3.63	0.12	1.47	1.58	0.11	0.43	0.54	0.70	1,334
Mit.	8.04	3.04	0.04	1.47	1.51	0.04	0.43	0.47	0.70	1,334

% Reduced	1%	16%	64%	—	5%	63%	—	13%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	0.66	0.02	0.27	0.29	0.02	0.08	0.10	0.12	221
Mit.	1.47	0.55	0.01	0.27	0.28	0.01	0.08	0.09	0.12	221
% Reduced	1%	16%	64%	—	5%	63%	—	13%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2027	2.01	18.7	0.67	6.91	7.58	0.62	2.10	2.72	4.74	5,386
2028	0.98	4.82	0.13	8.11	8.24	0.12	2.01	2.13	7.22	3,394
2029	16.3	1.45	0.02	1.28	1.30	0.02	0.32	0.33	0.83	555
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2027	1.61	21.6	0.55	9.96	10.5	0.51	2.79	3.31	0.43	10,846
2028	0.34	2.34	0.08	0.68	0.76	0.08	0.17	0.24	0.01	522
2029	16.3	1.46	0.02	1.28	1.30	0.02	0.32	0.33	0.02	535
Average Daily	—	—	—	—	—	—	—	—	—	—
2027	0.35	3.63	0.12	1.47	1.58	0.11	0.43	0.54	0.70	1,334
2028	0.16	0.88	0.03	1.08	1.10	0.02	0.27	0.29	0.41	467
2029	8.08	0.72	0.01	0.63	0.64	0.01	0.16	0.16	0.18	267
Annual	—	—	—	—	—	—	—	—	—	—
2027	0.06	0.66	0.02	0.27	0.29	0.02	0.08	0.10	0.12	221
2028	0.03	0.16	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.07	77.4
2029	1.48	0.13	< 0.005	0.12	0.12	< 0.005	0.03	0.03	0.03	44.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2027	0.57	14.3	0.20	6.91	7.10	0.19	2.10	2.28	4.74	5,386
2028	0.89	4.95	0.11	8.11	8.22	0.10	2.01	2.11	7.22	3,394
2029	16.2	2.06	0.06	1.28	1.34	0.05	0.32	0.37	0.83	555
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2027	0.80	20.7	0.29	9.96	10.2	0.28	2.79	3.07	0.43	10,846
2028	0.30	2.51	0.08	0.68	0.76	0.07	0.17	0.24	0.01	522
2029	16.2	2.07	0.06	1.28	1.34	0.05	0.32	0.37	0.02	535
Average Daily	—	—	—	—	—	—	—	—	—	—
2027	0.12	3.04	0.04	1.47	1.51	0.04	0.43	0.47	0.70	1,334
2028	0.14	0.91	0.02	1.08	1.10	0.02	0.27	0.29	0.41	467
2029	8.04	1.02	0.03	0.63	0.66	0.03	0.16	0.18	0.18	267
Annual	—	—	—	—	—	—	—	—	—	—
2027	0.02	0.55	0.01	0.27	0.28	0.01	0.08	0.09	0.12	221
2028	0.03	0.17	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.07	77.4
2029	1.47	0.19	0.01	0.12	0.12	< 0.005	0.03	0.03	0.03	44.2

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	8.95	1.39	0.03	3.50	3.53	0.03	0.89	0.91	9.66	4,846

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	7.38	1.46	0.02	3.50	3.52	0.02	0.89	0.91	1.69	4,590
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	7.97	1.37	0.02	3.32	3.34	0.02	0.84	0.86	4.84	4,467
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	0.25	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.80	740

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	2.25	1.25	0.02	3.50	3.52	0.02	0.89	0.91	8.18	3,633
Area	6.70	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3
Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48
Total	8.95	1.39	0.03	3.50	3.53	0.03	0.89	0.91	9.66	4,846
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	2.16	1.46	0.02	3.50	3.52	0.02	0.89	0.91	0.21	3,421
Area	5.22	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3
Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48

Total	7.38	1.46	0.02	3.50	3.52	0.02	0.89	0.91	1.69	4,590
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	2.02	1.30	0.02	3.32	3.34	0.02	0.84	0.86	3.35	3,276
Area	5.95	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.6
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3
Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48
Total	7.97	1.37	0.02	3.32	3.34	0.02	0.84	0.86	4.84	4,467
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.37	0.24	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.56	542
Area	1.09	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	129
Water	—	—	—	—	—	—	—	—	—	9.81
Waste	—	—	—	—	—	—	—	—	—	54.5
Refrig.	—	—	—	—	—	—	—	—	0.25	0.25
Total	1.46	0.25	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.80	740

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	2.25	1.25	0.02	3.50	3.52	0.02	0.89	0.91	8.18	3,633
Area	6.70	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3

Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48
Total	8.95	1.39	0.03	3.50	3.53	0.03	0.89	0.91	9.66	4,846
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	2.16	1.46	0.02	3.50	3.52	0.02	0.89	0.91	0.21	3,421
Area	5.22	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3
Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48
Total	7.38	1.46	0.02	3.50	3.52	0.02	0.89	0.91	1.69	4,590
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	2.02	1.30	0.02	3.32	3.34	0.02	0.84	0.86	3.35	3,276
Area	5.95	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.6
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	779
Water	—	—	—	—	—	—	—	—	—	59.3
Waste	—	—	—	—	—	—	—	—	—	329
Refrig.	—	—	—	—	—	—	—	—	1.48	1.48
Total	7.97	1.37	0.02	3.32	3.34	0.02	0.84	0.86	4.84	4,467
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.37	0.24	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.56	542
Area	1.09	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58
Energy	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	129
Water	—	—	—	—	—	—	—	—	—	9.81
Waste	—	—	—	—	—	—	—	—	—	54.5
Refrig.	—	—	—	—	—	—	—	—	0.25	0.25
Total	1.46	0.25	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.80	740

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	7.24	0.24	—	0.24	0.22	—	0.22	—	1,336
Demolition	—	—	—	1.54	1.54	—	0.23	0.23	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.87	0.03	—	0.03	0.03	—	0.03	—	161
Demolition	—	—	—	0.19	0.19	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.01	—	0.01	< 0.005	—	< 0.005	—	26.7
Demolition	—	—	—	0.03	0.03	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.00	1.02	1.02	0.00	0.25	0.25	0.83	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.04	2.16	0.02	1.63	1.65	0.02	0.42	0.44	3.49	1,876
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.04	28.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.18	226
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	4.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.03	37.4

3.2. Demolition (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	6.62	0.14	—	0.14	0.13	—	0.13	—	1,336
Demolition	—	—	—	1.54	1.54	—	0.23	0.23	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.80	0.02	—	0.02	0.02	—	0.02	—	161
Demolition	—	—	—	0.19	0.19	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.15	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7
Demolition	—	—	—	0.03	0.03	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.00	1.02	1.02	0.00	0.25	0.25	0.83	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	2.16	0.02	1.63	1.65	0.02	0.42	0.44	3.49	1,876
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.04	28.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.27	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.18	226
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	0.01	4.70
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.03	37.4

3.3. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.04	9.15	0.41	—	0.41	0.38	—	0.38	—	1,796
Dust From Material Movement	—	—	—	2.21	2.21	—	1.07	1.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	9.15	0.41	—	0.41	0.38	—	0.38	—	1,796
Dust From Material Movement	—	—	—	2.21	2.21	—	1.07	1.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.05	—	0.05	—	221
Dust From Material Movement	—	—	—	0.27	0.27	—	0.13	0.13	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	—	36.7
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.51	0.51	0.00	0.13	0.13	0.42	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.06	0.06	0.00	0.02	0.02	0.02	14.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	5.46	0.03	—	0.03	0.03	—	0.03	—	1,796
Dust From Material Movement	—	—	—	2.21	2.21	—	1.07	1.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	5.46	0.03	—	0.03	0.03	—	0.03	—	1,796
Dust From Material Movement	—	—	—	2.21	2.21	—	1.07	1.07	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.67	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	221
Dust From Material Movement	—	—	—	0.27	0.27	—	0.13	0.13	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.00	0.51	0.51	0.00	0.13	0.13	0.42	126
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.00	0.51	0.51	0.00	0.13	0.13	0.01	116
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	0.06	0.06	0.00	0.02	0.02	0.02	14.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	9.18	0.36	—	0.36	0.33	—	0.33	—	1,910
Dust From Material Movement	—	—	—	1.28	1.28	—	0.58	0.58	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.58	0.02	—	0.02	0.02	—	0.02	—	120
Dust From Material Movement	—	—	—	0.08	0.08	—	0.04	0.04	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.00	0.85	0.85	0.00	0.21	0.21	0.02	194
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.17	10.0	0.10	7.14	7.25	0.10	1.84	1.94	0.40	8,217
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	12.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.62	0.01	0.45	0.46	0.01	0.12	0.12	0.42	518
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.11	< 0.005	0.08	0.08	< 0.005	0.02	0.02	0.07	85.8

3.6. Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	8.12	0.11	—	0.11	0.10	—	0.10	—	1,910
Dust From Material Movement	—	—	—	1.28	1.28	—	0.58	0.58	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.51	0.01	—	0.01	0.01	—	0.01	—	120
Dust From Material Movement	—	—	—	0.08	0.08	—	0.04	0.04	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9
Dust From Material Movement	—	—	—	0.01	0.01	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.00	0.85	0.85	0.00	0.21	0.21	0.02	194
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.17	10.0	0.10	7.14	7.25	0.10	1.84	1.94	0.40	8,217
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	0.02	12.4

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.62	0.01	0.45	0.46	0.01	0.12	0.12	0.42	518
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	2.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.11	< 0.005	0.08	0.08	< 0.005	0.02	0.02	0.07	85.8

3.7. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.92	0.04	—	0.04	0.03	—	0.03	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.89
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.50	0.34	0.00	6.40	6.40	0.00	1.58	1.58	4.68	1,534
Vendor	0.03	0.97	0.01	0.83	0.84	0.01	0.21	0.22	1.64	861
Hauling	< 0.005	0.26	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.40	226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.79	0.79	0.00	0.19	0.19	0.25	179
Vendor	< 0.005	0.12	< 0.005	0.10	0.10	< 0.005	0.03	0.03	0.09	106
Hauling	< 0.005	0.03	< 0.005	0.02	0.03	< 0.005	0.01	0.01	0.02	27.8
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.14	0.14	0.00	0.04	0.04	0.04	29.6
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.01	17.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.61

3.8. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.89	0.01	—	0.01	0.01	—	0.01	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.89
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.34	0.00	6.40	6.40	0.00	1.58	1.58	4.68	1,534
Vendor	0.03	0.97	0.01	0.83	0.84	0.01	0.21	0.22	1.64	861
Hauling	< 0.005	0.26	< 0.005	0.20	0.20	< 0.005	0.05	0.05	0.40	226
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.79	0.79	0.00	0.19	0.19	0.25	179
Vendor	< 0.005	0.12	< 0.005	0.10	0.10	< 0.005	0.03	0.03	0.09	106
Hauling	< 0.005	0.03	< 0.005	0.02	0.03	< 0.005	0.01	0.01	0.02	27.8
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.14	0.14	0.00	0.04	0.04	0.04	29.6
Vendor	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	0.01	17.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.61

3.9. Architectural Coating (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.38	0.02	—	0.02	0.02	—	0.02	—	253

Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.38	0.02	—	0.02	0.02	—	0.02	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.68	0.01	—	0.01	0.01	—	0.01	—	126
Architectural Coatings	7.97	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.8
Architectural Coatings	1.45	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.07	0.00	1.28	1.28	0.00	0.32	0.32	0.83	302
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.00	1.28	1.28	0.00	0.32	0.32	0.02	282

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.63	0.63	0.00	0.16	0.16	0.18	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.03	23.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.99	0.06	—	0.06	0.05	—	0.05	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.99	0.06	—	0.06	0.05	—	0.05	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.99	0.03	—	0.03	0.03	—	0.03	—	126
Architectural Coatings	7.97	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.18	0.01	—	0.01	< 0.005	—	< 0.005	—	20.8
Architectural Coatings	1.45	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.07	0.00	1.28	1.28	0.00	0.32	0.32	0.83	302
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.00	1.28	1.28	0.00	0.32	0.32	0.02	282
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.03	0.00	0.63	0.63	0.00	0.16	0.16	0.18	141
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.12	0.12	0.00	0.03	0.03	0.03	23.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.31	0.09	—	0.09	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.01	—	0.01	< 0.005	—	< 0.005	—	22.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.72
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.01	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	0.04	0.04	0.00	0.01	0.01	0.01	9.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.58
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.72
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.01	155
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.04	0.04	0.00	0.01	0.01	0.01	9.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	1.58
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.29	0.08	—	0.08	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.29	0.08	—	0.08	0.08	—	0.08	—	370

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.02	—	0.02	0.02	—	0.02	—	88.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.00	0.68	0.68	0.00	0.17	0.17	0.50	163
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.01	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.16	0.16	0.00	0.04	0.04	0.05	36.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	6.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.07	—	0.07	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.07	—	0.07	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.59	0.02	—	0.02	0.02	—	0.02	—	88.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.00	0.68	0.68	0.00	0.17	0.17	0.50	163
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.00	0.68	0.68	0.00	0.17	0.17	0.01	152
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.16	0.16	0.00	0.04	0.04	0.05	36.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.03	0.03	0.00	0.01	0.01	0.01	6.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.18	1.20	0.02	3.37	3.39	0.02	0.85	0.87	7.88	3,500
Strip Mall	0.07	0.04	< 0.005	0.13	0.13	< 0.005	0.03	0.03	0.30	133
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.25	1.25	0.02	3.50	3.52	0.02	0.89	0.91	8.18	3,633

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.09	1.41	0.02	3.37	3.39	0.02	0.85	0.87	0.20	3,296
Strip Mall	0.07	0.05	< 0.005	0.13	0.13	< 0.005	0.03	0.03	0.01	125
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.16	1.46	0.02	3.50	3.52	0.02	0.89	0.91	0.21	3,421
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.36	0.23	< 0.005	0.58	0.59	< 0.005	0.15	0.15	0.54	523
Strip Mall	0.01	0.01	< 0.005	0.02	0.02	< 0.005	0.01	0.01	0.02	19.2
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.37	0.24	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.56	542

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	2.18	1.20	0.02	3.37	3.39	0.02	0.85	0.87	7.88	3,500
Strip Mall	0.07	0.04	< 0.005	0.13	0.13	< 0.005	0.03	0.03	0.30	133
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.25	1.25	0.02	3.50	3.52	0.02	0.89	0.91	8.18	3,633
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	2.09	1.41	0.02	3.37	3.39	0.02	0.85	0.87	0.20	3,296
Strip Mall	0.07	0.05	< 0.005	0.13	0.13	< 0.005	0.03	0.03	0.01	125
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.16	1.46	0.02	3.50	3.52	0.02	0.89	0.91	0.21	3,421
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.36	0.23	< 0.005	0.58	0.59	< 0.005	0.15	0.15	0.54	523
Strip Mall	0.01	0.01	< 0.005	0.02	0.02	< 0.005	0.01	0.01	0.02	19.2
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.37	0.24	< 0.005	0.61	0.61	< 0.005	0.15	0.16	0.56	542

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	694
Strip Mall	—	—	—	—	—	—	—	—	—	4.14
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	80.3
Total	—	—	—	—	—	—	—	—	—	779
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	694
Strip Mall	—	—	—	—	—	—	—	—	—	4.14
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	80.3
Total	—	—	—	—	—	—	—	—	—	779
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	115
Strip Mall	—	—	—	—	—	—	—	—	—	0.68
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	13.3
Total	—	—	—	—	—	—	—	—	—	129

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	694
Strip Mall	—	—	—	—	—	—	—	—	—	4.14
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	80.3
Total	—	—	—	—	—	—	—	—	—	779
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	694

Strip Mall	—	—	—	—	—	—	—	—	—	4.14
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	80.3
Total	—	—	—	—	—	—	—	—	—	779
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	115
Strip Mall	—	—	—	—	—	—	—	—	—	0.68
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	13.3
Total	—	—	—	—	—	—	—	—	—	129

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Enclosed Parking with Elevator	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Total	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	4.43	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.80	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.47	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Total	6.70	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Consumer Products	4.43	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.80	—	—	—	—	—	—	—	—	—
Total	5.22	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	0.81	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.13	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58
Total	1.09	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	4.43	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.80	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.47	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Total	6.70	0.14	0.01	—	0.01	0.01	—	0.01	—	43.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00

Consumer Products	4.43	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.80	—	—	—	—	—	—	—	—	—
Total	5.22	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00
Consumer Products	0.81	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.15	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.13	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58
Total	1.09	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.58

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	58.9
Strip Mall	—	—	—	—	—	—	—	—	—	0.42
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	59.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	58.9
Strip Mall	—	—	—	—	—	—	—	—	—	0.42
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	59.3
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	9.74
Strip Mall	—	—	—	—	—	—	—	—	—	0.07
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	9.81

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	58.9
Strip Mall	—	—	—	—	—	—	—	—	—	0.42
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	59.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	58.9

Strip Mall	—	—	—	—	—	—	—	—	—	0.42
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	59.3
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	9.74
Strip Mall	—	—	—	—	—	—	—	—	—	0.07
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	9.81

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	328
Strip Mall	—	—	—	—	—	—	—	—	—	1.63
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	329
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	328

Strip Mall	—	—	—	—	—	—	—	—	—	1.63
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	329
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	54.3
Strip Mall	—	—	—	—	—	—	—	—	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	54.5

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	328
Strip Mall	—	—	—	—	—	—	—	—	—	1.63
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	329
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	328
Strip Mall	—	—	—	—	—	—	—	—	—	1.63

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	329
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	54.3
Strip Mall	—	—	—	—	—	—	—	—	—	0.27
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	54.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	1.48	1.48
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	1.48	1.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	1.48	1.48
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	1.48	1.48
Annual	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	0.24	0.24
Strip Mall	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	0.25	0.25

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	1.48	1.48
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	1.48	1.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	1.48	1.48
Strip Mall	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	1.48	1.48
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	0.24	0.24
Strip Mall	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	0.25	0.25

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/1/2027	8/1/2027	5.00	44.0	—
Site Preparation	Site Preparation	8/1/2027	10/1/2027	5.00	45.0	—
Grading	Grading	11/1/2027	12/1/2027	5.00	23.0	—
Building Construction	Building Construction	5/1/2028	7/1/2028	5.00	45.0	—
Architectural Coating	Architectural Coating	2/1/2029	10/11/2029	5.00	181	—
Trenching/Foundation/Garage	Trenching	12/1/2027	5/1/2028	5.00	109	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	4.00	3.10	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	1.60	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	3.10	84.0	0.37
Demolition	Excavators	Diesel	Average	4.00	2.50	36.0	0.38
Site Preparation	Graders	Diesel	Average	2.00	3.20	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	3.20	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	3.20	84.0	0.37
Grading	Graders	Diesel	Average	2.00	3.30	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	1.70	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	6.70	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	7.30	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Average	2.00	1.70	33.0	0.73
Building Construction	Cranes	Diesel	Average	1.00	1.10	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	1.10	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.10	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	0.30	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	0.20	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	2.00	3.10	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	2.00	3.10	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.30	84.0	0.37
Trenching/Foundation/Garage	Pumps	Diesel	Average	4.00	5.60	11.0	0.74
Trenching/Foundation/Garage	Excavators	Diesel	Average	2.00	1.30	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	4.00	3.10	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.60	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	3.10	84.0	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	4.00	2.50	36.0	0.38
Site Preparation	Graders	Diesel	Tier 4 Interim	2.00	3.20	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	3.20	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	3.20	84.0	0.37
Grading	Graders	Diesel	Tier 4 Interim	2.00	3.30	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.70	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	6.70	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	2.00	7.30	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	1.70	33.0	0.73
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	1.10	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	2.00	1.10	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.10	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.30	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	0.20	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	2.00	3.10	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	2.00	3.10	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.30	84.0	0.37

Trenching/Foundation/G	Pumps	Diesel	Average	4.00	5.60	11.0	0.74
Trenching/Foundation/Garage	Excavators	Diesel	Tier 4 Interim	2.00	1.30	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	26.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	114	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	188	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	32.5	8.40	HHDT,MHDT
Building Construction	Hauling	3.21	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	37.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	20.0	11.7	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	20.0	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	26.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	—	8.40	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	114	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	188	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	32.5	8.40	HHDT,MHDT
Building Construction	Hauling	3.21	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	37.6	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	20.0	11.7	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	8.40	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	20.0	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	417,186	139,062	1,232	411	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	67,000	—
Site Preparation	—	—	36.0	0.00	—
Grading	—	21,000	14.4	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	809	0.03	< 0.005
2028	0.00	809	0.03	< 0.005
2029	0.00	809	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	865	780	651	300,090	4,777	4,310	3,596	1,657,587
Strip Mall	27.0	25.6	12.4	9,024	183	174	84.5	61,277
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	865	780	651	300,090	4,777	4,310	3,596	1,657,587
Strip Mall	27.0	25.6	12.4	9,024	183	174	84.5	61,277
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0

Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
417186.2475	139,062	1,232	411	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	1,408,042	178	0.0330	0.0040	0.00
Strip Mall	8,387	178	0.0330	0.0040	0.00
Enclosed Parking with Elevator	162,796	178	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	1,408,042	178	0.0330	0.0040	0.00
Strip Mall	8,387	178	0.0330	0.0040	0.00
Enclosed Parking with Elevator	162,796	178	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	8,522,604	0.00

Strip Mall	60,814	0.00
Enclosed Parking with Elevator	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	8,522,604	0.00
Strip Mall	60,814	0.00
Enclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	174	—
Strip Mall	0.86	—
Enclosed Parking with Elevator	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	174	—
Strip Mall	0.86	—
Enclosed Parking with Elevator	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	2.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	20.8
AQ-PM	37.3
AQ-DPM	78.4
Drinking Water	22.7
Lead Risk Housing	83.0
Pesticides	0.00
Toxic Releases	33.0
Traffic	87.7
Effect Indicators	—

CleanUp Sites	62.0
Groundwater	73.8
Haz Waste Facilities/Generators	28.3
Impaired Water Bodies	33.2
Solid Waste	85.2
Sensitive Population	—
Asthma	61.0
Cardio-vascular	31.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	79.7
Housing	62.4
Linguistic	93.8
Poverty	65.9
Unemployment	29.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	31.10483767
Employed	68.92082638
Median HI	25.20210445
Education	—
Bachelor's or higher	24.38085461
High school enrollment	100
Preschool enrollment	50.42987296

Transportation	—
Auto Access	16.36083665
Active commuting	63.9291672
Social	—
2-parent households	24.00872578
Voting	46.16963942
Neighborhood	—
Alcohol availability	9.444373155
Park access	81.35506224
Retail density	51.84139612
Supermarket access	80.12318748
Tree canopy	79.67406647
Housing	—
Homeownership	16.25818042
Housing habitability	15.10329783
Low-inc homeowner severe housing cost burden	12.43423585
Low-inc renter severe housing cost burden	63.54420634
Uncrowded housing	6.800975234
Health Outcomes	—
Insured adults	22.55870653
Arthritis	53.0
Asthma ER Admissions	47.1
High Blood Pressure	52.5
Cancer (excluding skin)	85.3
Asthma	12.1
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	19.2

Diagnosed Diabetes	18.3
Life Expectancy at Birth	33.7
Cognitively Disabled	24.2
Physically Disabled	65.4
Heart Attack ER Admissions	61.9
Mental Health Not Good	11.0
Chronic Kidney Disease	20.1
Obesity	15.8
Pedestrian Injuries	63.6
Physical Health Not Good	12.4
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	78.7
Current Smoker	13.8
No Leisure Time for Physical Activity	11.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	80.0
English Speaking	7.6
Foreign-born	88.9
Outdoor Workers	3.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	37.7
Traffic Density	90.0
Traffic Access	87.4

Other Indices	—
Hardship	78.2
Other Decision Support	—
2016 Voting	28.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Total lot acreage, square footage, land uses, and number of parking spaces provided by project construction worksheet filled out by applicant.

Construction: Construction Phases	Construction schedule provided by project applicant in construction worksheet.
Construction: Off-Road Equipment	Construction equipment and hours provided by filled out construction worksheet from applicant.
Construction: Trips and VMT	Demolition = 2,000 tons pavement hauling (8.8889 trips/day). Building cosntruction = 490 concrete truck round trips (3.21 trips/day)
Construction: On-Road Fugitive Dust	Road silt loading factor = 0.5 g/m2. Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with reduction adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code = No natural gas, convert to all electric.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

22-012 1298 Tripp Existing Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1298 Tripp Existing
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1298 Tripp Ave, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Low Rise	50.0	Dwelling Unit	3.13	53,000	0.00	0.00	150	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	2.86	1.52	0.07	0.52	0.59	0.07	0.09	0.16	7.32	2,733
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	2.53	1.63	0.07	0.52	0.59	0.07	0.09	0.16	0.56	2,628
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	2.50	1.02	0.03	0.47	0.50	0.03	0.08	0.11	3.07	1,877
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.19	0.01	0.09	0.09	0.01	0.02	0.02	0.51	311

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.21	0.75	0.01	0.52	0.53	0.01	0.09	0.10	6.94	1,594
Area	1.63	0.52	0.04	—	0.04	0.04	—	0.04	—	635
Energy	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	413
Water	—	—	—	—	—	—	—	—	—	20.7

Waste	—	—	—	—	—	—	—	—	—	69.9
Refrig.	—	—	—	—	—	—	—	—	0.38	0.38
Total	2.86	1.52	0.07	0.52	0.59	0.07	0.09	0.16	7.32	2,733
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Mobile	1.14	0.88	0.01	0.52	0.53	0.01	0.09	0.10	0.18	1,497
Area	1.37	0.49	0.04	—	0.04	0.04	—	0.04	—	627
Energy	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	413
Water	—	—	—	—	—	—	—	—	—	20.7
Waste	—	—	—	—	—	—	—	—	—	69.9
Refrig.	—	—	—	—	—	—	—	—	0.38	0.38
Total	2.53	1.63	0.07	0.52	0.59	0.07	0.09	0.16	0.56	2,628
Average Daily	—	—	—	—	—	—	—	—	—	—
Mobile	1.01	0.74	0.01	0.47	0.48	0.01	0.08	0.09	2.69	1,354
Area	1.47	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.2
Energy	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	413
Water	—	—	—	—	—	—	—	—	—	20.7
Waste	—	—	—	—	—	—	—	—	—	69.9
Refrig.	—	—	—	—	—	—	—	—	0.38	0.38
Total	2.50	1.02	0.03	0.47	0.50	0.03	0.08	0.11	3.07	1,877
Annual	—	—	—	—	—	—	—	—	—	—
Mobile	0.18	0.14	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.44	224
Area	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.18
Energy	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.4
Water	—	—	—	—	—	—	—	—	—	3.43
Waste	—	—	—	—	—	—	—	—	—	11.6
Refrig.	—	—	—	—	—	—	—	—	0.06	0.06
Total	0.46	0.19	0.01	0.09	0.09	0.01	0.02	0.02	0.51	311

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.21	0.75	0.01	0.52	0.53	0.01	0.09	0.10	6.94	1,594
Total	1.21	0.75	0.01	0.52	0.53	0.01	0.09	0.10	6.94	1,594
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	1.14	0.88	0.01	0.52	0.53	0.01	0.09	0.10	0.18	1,497
Total	1.14	0.88	0.01	0.52	0.53	0.01	0.09	0.10	0.18	1,497
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.18	0.14	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.44	224
Total	0.18	0.14	< 0.005	0.09	0.09	< 0.005	0.02	0.02	0.44	224

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Low Rise	—	—	—	—	—	—	—	—	—	92.5
Total	—	—	—	—	—	—	—	—	—	92.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	92.5
Total	—	—	—	—	—	—	—	—	—	92.5
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	15.3
Total	—	—	—	—	—	—	—	—	—	15.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	321
Total	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	321
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	321
Total	0.01	0.25	0.02	—	0.02	0.02	—	0.02	—	321
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.1
Total	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53.1

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.49	0.04	—	0.04	0.04	—	0.04	—	627
Consumer Products	1.13	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.27	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.61
Total	1.63	0.52	0.04	—	0.04	0.04	—	0.04	—	635
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.49	0.04	—	0.04	0.04	—	0.04	—	627
Consumer Products	1.13	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—	—
Total	1.37	0.49	0.04	—	0.04	0.04	—	0.04	—	627
Annual	—	—	—	—	—	—	—	—	—	—
Hearths	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56
Consumer Products	0.21	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62

Total	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.18

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	20.7
Total	—	—	—	—	—	—	—	—	—	20.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	20.7
Total	—	—	—	—	—	—	—	—	—	20.7
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	3.43
Total	—	—	—	—	—	—	—	—	—	3.43

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Apartments Low Rise	—	—	—	—	—	—	—	—	—	69.9
Total	—	—	—	—	—	—	—	—	—	69.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	69.9
Total	—	—	—	—	—	—	—	—	—	69.9
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	—	11.6
Total	—	—	—	—	—	—	—	—	—	11.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	0.38	0.38
Total	—	—	—	—	—	—	—	—	0.38	0.38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	0.38	0.38
Total	—	—	—	—	—	—	—	—	0.38	0.38
Annual	—	—	—	—	—	—	—	—	—	—
Apartments Low Rise	—	—	—	—	—	—	—	—	0.06	0.06

Total	—	—	—	—	—	—	—	—	0.06	0.06

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Low Rise	310	345	266	112,655	1,712	1,903	1,469	622,263

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	26
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	25
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
107325	35,775	0.00	0.00	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)

Apartments Low Rise	187,524	178	0.0330	0.0040	997,965

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Low Rise	1,813,320	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Low Rise	37.1	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.6	annual days of extreme heat
Extreme Precipitation	2.35	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	20.8
AQ-PM	37.3
AQ-DPM	78.4
Drinking Water	22.7
Lead Risk Housing	83.0
Pesticides	0.00
Toxic Releases	33.0
Traffic	87.7
Effect Indicators	—
CleanUp Sites	62.0
Groundwater	73.8
Haz Waste Facilities/Generators	28.3
Impaired Water Bodies	33.2
Solid Waste	85.2
Sensitive Population	—
Asthma	61.0
Cardio-vascular	31.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	79.7
Housing	62.4
Linguistic	93.8
Poverty	65.9

Unemployment	29.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	31.10483767
Employed	68.92082638
Median HI	25.20210445
Education	—
Bachelor's or higher	24.38085461
High school enrollment	100
Preschool enrollment	50.42987296
Transportation	—
Auto Access	16.36083665
Active commuting	63.9291672
Social	—
2-parent households	24.00872578
Voting	46.16963942
Neighborhood	—
Alcohol availability	9.444373155
Park access	81.35506224
Retail density	51.84139612
Supermarket access	80.12318748
Tree canopy	79.67406647
Housing	—
Homeownership	16.25818042

Housing habitability	15.10329783
Low-inc homeowner severe housing cost burden	12.43423585
Low-inc renter severe housing cost burden	63.54420634
Uncrowded housing	6.800975234
Health Outcomes	—
Insured adults	22.55870653
Arthritis	53.0
Asthma ER Admissions	47.1
High Blood Pressure	52.5
Cancer (excluding skin)	85.3
Asthma	12.1
Coronary Heart Disease	34.0
Chronic Obstructive Pulmonary Disease	19.2
Diagnosed Diabetes	18.3
Life Expectancy at Birth	33.7
Cognitively Disabled	24.2
Physically Disabled	65.4
Heart Attack ER Admissions	61.9
Mental Health Not Good	11.0
Chronic Kidney Disease	20.1
Obesity	15.8
Pedestrian Injuries	63.6
Physical Health Not Good	12.4
Stroke	22.5
Health Risk Behaviors	—
Binge Drinking	78.7
Current Smoker	13.8

No Leisure Time for Physical Activity	11.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	23.1
Elderly	80.0
English Speaking	7.6
Foreign-born	88.9
Outdoor Workers	3.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	37.7
Traffic Density	90.0
Traffic Access	87.4
Other Indices	—
Hardship	78.2
Other Decision Support	—
2016 Voting	28.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	34.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Sam Jose Clean Energy 2020 rate = 178 lb/MWh.
Operations: Vehicle Data	Provided trip gen. (Number of apartment units taken from Green Villa Apartments San jose websearch.

22-012 1347 E Julian T4i 2026 HRA Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1347 E Julian T4i 2026 HRA
Construction Start Date	9/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1347 E Julian St, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	45.0	Dwelling Unit	0.52	44,605	0.00	0.00	135	—

Unenclosed Parking with Elevator	5.00	Space	0.00	3,112	0.00	0.00	—	—
Parking Lot	16.0	Space	0.00	0.00	0.00	0.00	—	—
Strip Mall	2.45	1000sqft	0.00	2,454	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	13.9	4.11	0.13	0.02	0.15	0.12	< 0.005	0.13	0.09	979
Mit.	13.6	3.83	0.09	0.02	0.09	0.08	< 0.005	0.08	0.09	979
% Reduced	2%	7%	35%	—	39%	35%	—	36%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.32	12.4	0.57	1.57	2.14	0.53	0.77	1.29	< 0.005	1,851

Mit.	0.27	5.53	0.03	1.57	1.61	0.03	0.77	0.80	< 0.005	1,851
% Reduced	79%	55%	94%	—	25%	93%	—	38%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.87	1.02	0.05	0.13	0.18	0.04	0.06	0.11	0.01	153
Mit.	1.83	0.60	0.01	0.13	0.13	0.01	0.06	0.07	0.01	153
% Reduced	2%	41%	75%	—	25%	74%	—	38%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.34	0.19	0.01	0.02	0.03	0.01	0.01	0.02	< 0.005	25.3
Mit.	0.33	0.11	< 0.005	0.02	0.02	< 0.005	0.01	0.01	< 0.005	25.3
% Reduced	2%	41%	75%	—	25%	74%	—	38%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	13.9	4.11	0.13	0.02	0.15	0.12	< 0.005	0.13	0.09	979
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	1.32	12.4	0.57	1.57	2.14	0.53	0.77	1.29	< 0.005	1,851
2025	0.10	0.81	0.03	< 0.005	0.03	0.03	< 0.005	0.03	< 0.005	197
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.11	1.02	0.05	0.13	0.18	0.04	0.06	0.11	< 0.005	153
2025	1.87	0.62	0.02	< 0.005	0.02	0.02	< 0.005	0.02	0.01	142
Annual	—	—	—	—	—	—	—	—	—	—
2024	0.02	0.19	0.01	0.02	0.03	0.01	0.01	0.02	< 0.005	25.3
2025	0.34	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	23.4

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	13.6	3.83	0.09	0.02	0.09	0.08	< 0.005	0.08	0.09	979
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2024	0.27	5.53	0.03	1.57	1.61	0.03	0.77	0.80	< 0.005	1,851
2025	0.04	0.93	0.01	< 0.005	0.01	0.01	< 0.005	0.01	< 0.005	197
Average Daily	—	—	—	—	—	—	—	—	—	—
2024	0.02	0.46	< 0.005	0.13	0.13	< 0.005	0.06	0.07	< 0.005	153
2025	1.83	0.60	0.01	< 0.005	0.01	0.01	< 0.005	0.01	0.01	142
Annual	—	—	—	—	—	—	—	—	—	—
2024	< 0.005	0.08	< 0.005	0.02	0.02	< 0.005	0.01	0.01	< 0.005	25.3
2025	0.33	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	23.4

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.84	8.06	0.37	—	0.37	0.34	—	0.34	—	1,151
Dust From Material Movement	—	—	—	1.12	1.12	—	0.55	0.55	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.64	0.03	—	0.03	0.03	—	0.03	—	91.4
Dust From Material Movement	—	—	—	0.09	0.09	—	0.04	0.04	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.01	—	0.01	< 0.005	—	< 0.005	—	15.1
Dust From Material Movement	—	—	—	0.02	0.02	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	4.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	3.24	0.02	—	0.02	0.02	—	0.02	—	1,151
Dust From Material Movement	—	—	—	1.12	1.12	—	0.55	0.55	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.26	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	91.4
Dust From Material Movement	—	—	—	0.09	0.09	—	0.04	0.04	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.1

Dust From Material Movement	—	—	—	0.02	0.02	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	4.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.44	4.20	0.20	—	0.20	0.18	—	0.18	—	670
Dust From Material Movement	—	—	—	0.45	0.45	—	0.21	0.21	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.02	—	0.02	0.02	—	0.02	—	58.8
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.73
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	4.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	21.6
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31

3.4. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.18	0.01	—	0.01	0.01	—	0.01	—	670
Dust From Material Movement	—	—	—	0.45	0.45	—	0.21	0.21	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	58.8
Dust From Material Movement	—	—	—	0.04	0.04	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.73

Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	4.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	21.6
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31

3.5. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.57	0.10	—	0.10	0.10	—	0.10	—	687

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.01	—	0.01	0.01	—	0.01	—	82.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.05	19.3
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	15.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.24
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.88
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.18
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03

3.6. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	1.75	0.01	—	0.01	0.01	—	0.01	—	687
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.21	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	82.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.05	19.3
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	15.6
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.24
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.88
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.18

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.37
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03

3.7. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.82	0.04	—	0.04	0.03	—	0.03	—	123
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	2.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	9.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.59
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10

3.8. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.94	0.03	—	0.03	0.03	—	0.03	—	123
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.23
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	2.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	9.73
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.59
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10

3.9. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.44	0.03	—	0.03	0.03	—	0.03	—	252
Architectural Coatings	13.3	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.19	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.9
Architectural Coatings	1.79	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.61
Architectural Coatings	0.33	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	3.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.98	0.06	—	0.06	0.05	—	0.05	—	252
Architectural Coatings	13.3	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.27	0.01	—	0.01	0.01	—	0.01	—	33.9
Architectural Coatings	1.79	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.61

Architectural Coatings	0.33	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.02	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	3.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.50
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.81	0.03	—	0.03	0.03	—	0.03	—	194
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.94
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.92	0.01	—	0.01	0.01	—	0.01	—	194
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.94
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.72
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2024	11/10/2024	5.00	29.0	—
Grading	Grading	11/10/2024	12/24/2024	5.00	32.0	—
Building Construction	Building Construction	4/24/2025	6/24/2025	5.00	44.0	—
Paving	Paving	8/30/2025	9/30/2025	5.00	22.0	—
Architectural Coating	Architectural Coating	6/24/2025	8/30/2025	5.00	49.0	—
Trenching/Foundation	Trenching	1/24/2025	2/24/2025	5.00	22.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	3.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	2.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	5.00	367	0.40
Grading	Graders	Diesel	Average	1.00	2.50	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.90	367	0.40

Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	4.50	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	5.30	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	0.50	82.0	0.20
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	0.30	84.0	0.37
Building Construction	Generator Sets	Diesel	Average	1.00	0.20	14.0	0.74
Building Construction	Welders	Diesel	Average	1.00	0.20	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.40	10.0	0.56
Paving	Rollers	Diesel	Average	1.00	4.40	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	5.50	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	1.00	7.00	46.0	0.31
Trenching/Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	4.30	84.0	0.37
Trenching/Foundation	Excavators	Diesel	Average	1.00	2.10	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Tier 4 Interim	1.00	3.00	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	2.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	5.00	367	0.40
Grading	Graders	Diesel	Tier 4 Interim	1.00	2.50	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	1.90	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	4.50	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	5.30	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	0.50	82.0	0.20

Building Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	1.00	0.30	84.0	0.37
Building Construction	Generator Sets	Diesel	Average	1.00	0.20	14.0	0.74
Building Construction	Welders	Diesel	Tier 4 Interim	1.00	0.20	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.40	10.0	0.56
Paving	Rollers	Diesel	Tier 4 Interim	1.00	4.40	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	5.50	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	1.00	7.00	46.0	0.31
Trenching/Foundation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	4.30	84.0	0.37
Trenching/Foundation	Excavators	Diesel	Tier 4 Interim	1.00	2.10	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	7.50	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	5.88	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	34.5	0.50	LDA,LDT1,LDT2

Building Construction	Vendor	5.72	0.50	HHDT,MHDT
Building Construction	Hauling	0.42	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	5.00	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	2.71	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.90	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation	—	—	—	—
Trenching/Foundation	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching/Foundation	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation	Hauling	0.00	0.50	HHDT
Trenching/Foundation	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	7.50	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	5.88	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	34.5	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	5.72	0.50	HHDT,MHDT
Building Construction	Hauling	0.42	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	5.00	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	2.71	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	6.90	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation	—	—	—	—
Trenching/Foundation	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching/Foundation	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation	Hauling	0.00	0.50	HHDT
Trenching/Foundation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	90,325	30,108	3,681	1,227	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	14.5	0.00	—
Grading	1,300	200	8.80	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Unenclosed Parking with Elevator	0.00	100%
Parking Lot	0.00	100%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	809	0.03	< 0.005
2025	0.00	809	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Land uses, total lot acreage, square footages, and total number of parking spaces provided by project applicant in construction worksheet.
Construction: Construction Phases	No demolition phase. Construction schedule from filled out construction worksheet provided by project applicant.
Construction: Off-Road Equipment	Construction equipment and hours provided by filled out construction worksheet from project applicant.
Construction: Trips and VMT	Building construction = 37 concrete truck round trips (0.425 trips/day), Paving = 270-cy of concrete (2.708 trips/day). HRA 0.5 mile trip length for localized emissions.
Construction: On-Road Fugitive Dust	Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with reduction adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code - convert natural gas to electric.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

22-012 1325 E. Julian T4i 2029 HRA Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1325 E. Julian T4i 2029 HRA
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1325 E Julian St, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	633	Dwelling Unit	3.00	533,537	0.00	0.00	1,893	—

Strip Mall	11.4	1000sqft	0.00	11,437	0.00	0.00	—	—
Enclosed Parking with Elevator	174	Space	0.00	90,512	0.00	0.00	—	—
Parking Lot	8.00	Space	0.00	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	25.6	7.15	0.17	0.25	0.40	0.16	0.06	0.20	1.05	1,799
Mit.	25.2	8.18	0.16	0.25	0.42	0.15	0.06	0.21	1.05	1,799
% Reduced	2%	-14%	5%	—	-4%	4%	—	-8%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	25.5	9.09	0.33	0.89	1.21	0.30	0.40	0.70	0.03	1,853

Mit.	25.1	8.58	0.17	0.89	0.94	0.15	0.40	0.45	0.03	1,853
% Reduced	2%	6%	49%	—	23%	49%	—	36%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	5.16	0.11	0.18	0.29	0.10	0.04	0.14	0.32	1,278
Mit.	17.9	5.89	0.12	0.18	0.30	0.11	0.04	0.15	0.32	1,278
% Reduced	2%	-14%	-11%	—	-4%	-12%	—	-8%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	3.32	0.94	0.02	0.03	0.05	0.02	0.01	0.03	0.05	212
Mit.	3.27	1.08	0.02	0.03	0.05	0.02	0.01	0.03	0.05	212
% Reduced	2%	-14%	-11%	—	-4%	-12%	—	-8%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.52	4.29	0.17	0.05	0.22	0.16	0.01	0.17	0.03	726
2026	1.77	4.61	0.12	0.22	0.34	0.11	0.05	0.16	1.05	1,291
2027	25.6	7.15	0.15	0.25	0.40	0.14	0.06	0.20	1.04	1,799
2028	25.5	6.90	0.13	0.25	0.39	0.12	0.06	0.18	0.93	1,786
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.96	9.09	0.33	0.89	1.21	0.30	0.40	0.70	0.01	1,687
2026	1.64	5.87	0.17	0.48	0.65	0.16	0.20	0.36	0.03	1,233
2027	25.5	7.28	0.15	0.25	0.40	0.14	0.06	0.20	0.03	1,789
2028	25.5	7.33	0.14	0.26	0.40	0.13	0.06	0.19	0.02	1,853
Average Daily	—	—	—	—	—	—	—	—	—	—

2025	0.13	1.17	0.04	0.09	0.13	0.04	0.04	0.08	0.03	216
2026	0.79	2.19	0.06	0.11	0.16	0.05	0.03	0.08	0.22	604
2027	18.2	5.16	0.11	0.18	0.29	0.10	0.04	0.14	0.32	1,278
2028	4.67	1.53	0.03	0.06	0.09	0.03	0.01	0.04	0.09	400
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.02	0.21	0.01	0.02	0.02	0.01	0.01	0.01	< 0.005	35.7
2026	0.14	0.40	0.01	0.02	0.03	0.01	< 0.005	0.01	0.04	100
2027	3.32	0.94	0.02	0.03	0.05	0.02	0.01	0.03	0.05	212
2028	0.85	0.28	0.01	0.01	0.02	0.01	< 0.005	0.01	0.02	66.2

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.15	2.70	0.04	0.04	0.08	0.04	0.01	0.05	0.03	726
2026	1.56	4.36	0.05	0.22	0.28	0.05	0.05	0.11	1.05	1,291
2027	25.2	8.18	0.16	0.25	0.42	0.15	0.06	0.21	1.04	1,799
2028	25.1	8.14	0.16	0.25	0.42	0.15	0.06	0.21	0.93	1,786
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2025	0.34	6.44	0.05	0.89	0.94	0.05	0.40	0.45	0.01	1,687
2026	1.44	5.00	0.05	0.48	0.52	0.05	0.20	0.24	0.03	1,233
2027	25.1	8.31	0.16	0.25	0.42	0.15	0.06	0.21	0.03	1,789
2028	25.1	8.58	0.17	0.26	0.42	0.15	0.06	0.22	0.02	1,853
Average Daily	—	—	—	—	—	—	—	—	—	—
2025	0.04	0.84	0.01	0.08	0.09	0.01	0.04	0.04	0.03	216
2026	0.69	2.06	0.02	0.11	0.13	0.02	0.03	0.05	0.22	604

2027	17.9	5.89	0.12	0.18	0.30	0.11	0.04	0.15	0.32	1,278
2028	4.59	1.75	0.03	0.06	0.09	0.03	0.01	0.04	0.09	400
Annual	—	—	—	—	—	—	—	—	—	—
2025	0.01	0.15	< 0.005	0.02	0.02	< 0.005	0.01	0.01	< 0.005	35.7
2026	0.13	0.38	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	0.04	100
2027	3.27	1.08	0.02	0.03	0.05	0.02	0.01	0.03	0.05	212
2028	0.84	0.32	0.01	0.01	0.02	0.01	< 0.005	0.01	0.02	66.2

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.17	—	0.17	0.16	—	0.16	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.27	0.17	—	0.17	0.16	—	0.16	—	713
Demolition	—	—	—	0.04	0.04	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.27	0.01	—	0.01	0.01	—	0.01	—	44.9

Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.03	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.28
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.29
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.68	0.04	—	0.04	0.04	—	0.04	—	713
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	2.68	0.04	—	0.04	0.04	—	0.04	—	713
Demolition	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	44.9
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.44
Demolition	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.03	11.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.28
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.29
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.10	0.14	—	0.14	0.13	—	0.13	—	542
Dust From Material Movement	—	—	—	0.41	0.41	—	0.20	0.20	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.01	—	0.01	0.01	—	0.01	—	34.1
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.68	0.01	—	0.01	0.01	—	0.01	—	542
Dust From Material Movement	—	—	—	0.41	0.41	—	0.20	0.20	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	34.1
Dust From Material Movement	—	—	—	0.03	0.03	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.65
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	4.12	0.18	—	0.18	0.17	—	0.17	—	727
Dust From Material Movement	—	—	—	0.41	0.41	—	0.18	0.18	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.05	0.49	0.02	—	0.02	0.02	—	0.02	—	86.8
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.84	< 0.005	0.05	0.05	< 0.005	0.01	0.02	0.01	396
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.21	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.02	47.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.78

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.89	0.04	—	0.04	0.03	—	0.03	—	727
Dust From Material Movement	—	—	—	0.41	0.41	—	0.18	0.18	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.34	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	86.8
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.84	< 0.005	0.05	0.05	< 0.005	0.01	0.02	0.01	396
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.21	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.02	47.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.78

3.7. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	3.79	0.16	—	0.16	0.15	—	0.15	—	727
Dust From Material Movement	—	—	—	0.41	0.41	—	0.18	0.18	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.42
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.24
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.82	< 0.005	0.05	0.05	< 0.005	0.01	0.02	0.01	389
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13

3.8. Grading (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.89	0.04	—	0.04	0.03	—	0.03	—	727
Dust From Material Movement	—	—	—	0.41	0.41	—	0.18	0.18	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.42
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.24
Dust From Material Movement	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.82	< 0.005	0.05	0.05	< 0.005	0.01	0.02	0.01	389
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.13

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.88	0.11	—	0.11	0.10	—	0.10	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.88	0.11	—	0.11	0.10	—	0.10	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.16	1.38	0.05	—	0.05	0.05	—	0.05	—	330
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.25	0.01	—	0.01	0.01	—	0.01	—	54.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.33	0.32	0.00	0.18	0.18	0.00	0.04	0.04	0.65	272
Vendor	0.04	0.94	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.32	226
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	52.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.27	0.39	0.00	0.18	0.18	0.00	0.04	0.04	0.02	265
Vendor	0.04	0.98	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	228
Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.17	0.00	0.08	0.08	0.00	0.02	0.02	0.13	126
Vendor	0.02	0.46	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	0.07	109
Hauling	< 0.005	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	25.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.03	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	20.8
Vendor	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	18.0
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.14

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.25	0.02	—	0.02	0.02	—	0.02	—	330
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.23	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	54.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.33	0.32	0.00	0.18	0.18	0.00	0.04	0.04	0.65	272
Vendor	0.04	0.94	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.32	226
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	52.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.27	0.39	0.00	0.18	0.18	0.00	0.04	0.04	0.02	265
Vendor	0.04	0.98	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	228

Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	52.3
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.17	0.00	0.08	0.08	0.00	0.02	0.02	0.13	126
Vendor	0.02	0.46	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	0.07	109
Hauling	< 0.005	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	25.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.03	0.00	0.02	0.02	0.00	< 0.005	< 0.005	0.02	20.8
Vendor	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	18.0
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.14

3.11. Building Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.76	0.10	—	0.10	0.09	—	0.09	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.76	0.10	—	0.10	0.09	—	0.09	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	1.97	0.07	—	0.07	0.07	—	0.07	—	491
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.36	0.01	—	0.01	0.01	—	0.01	—	81.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.26	0.31	0.00	0.18	0.18	0.00	0.04	0.04	0.59	267
Vendor	0.04	0.92	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.29	222
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	51.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.21	0.37	0.00	0.18	0.18	0.00	0.04	0.04	0.02	257
Vendor	0.04	0.96	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	224
Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	51.4
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.25	0.00	0.13	0.13	0.00	0.03	0.03	0.18	184
Vendor	0.03	0.67	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.09	159
Hauling	0.01	0.17	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	36.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.05	0.00	0.02	0.02	0.00	0.01	0.01	0.03	30.4
Vendor	< 0.005	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	26.4
Hauling	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.05

3.12. Building Construction (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.60	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	1.85	0.03	—	0.03	0.03	—	0.03	—	491
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.34	0.01	—	0.01	0.01	—	0.01	—	81.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.26	0.31	0.00	0.18	0.18	0.00	0.04	0.04	0.59	267
Vendor	0.04	0.92	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.29	222
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	51.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.21	0.37	0.00	0.18	0.18	0.00	0.04	0.04	0.02	257
Vendor	0.04	0.96	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	224
Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	51.4
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.25	0.00	0.13	0.13	0.00	0.03	0.03	0.18	184
Vendor	0.03	0.67	< 0.005	0.03	0.03	< 0.005	0.01	0.01	0.09	159

Hauling	0.01	0.17	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	36.5
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.05	0.00	0.02	0.02	0.00	0.01	0.01	0.03	30.4
Vendor	< 0.005	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	26.4
Hauling	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.05

3.13. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.61	0.09	—	0.09	0.08	—	0.08	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.61	0.09	—	0.09	0.08	—	0.08	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.62	0.02	—	0.02	0.02	—	0.02	—	164
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.20	0.29	0.00	0.18	0.18	0.00	0.04	0.04	0.53	261
Vendor	0.04	0.90	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.25	217
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	50.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.16	0.36	0.00	0.18	0.18	0.00	0.04	0.04	0.01	252
Vendor	0.04	0.94	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	219
Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	50.4
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.08	0.00	0.04	0.04	0.00	0.01	0.01	0.05	60.4
Vendor	0.01	0.22	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.03	52.0
Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	10.00
Vendor	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.61
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.98

3.14. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.59	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	2.59	0.05	—	0.05	0.04	—	0.04	—	688
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.62	0.01	—	0.01	0.01	—	0.01	—	164
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	27.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.20	0.29	0.00	0.18	0.18	0.00	0.04	0.04	0.53	261
Vendor	0.04	0.90	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.25	217
Hauling	0.01	0.23	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.05	50.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	1.16	0.36	0.00	0.18	0.18	0.00	0.04	0.04	0.01	252
Vendor	0.04	0.94	< 0.005	0.04	0.04	< 0.005	0.01	0.01	0.01	219
Hauling	0.01	0.24	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	50.4
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.08	0.00	0.04	0.04	0.00	0.01	0.01	0.05	60.4
Vendor	0.01	0.22	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.03	52.0
Hauling	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	10.00

Vendor	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.61
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.98

3.15. Paving (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.28	0.01	—	0.01	0.01	—	0.01	—	68.3
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	6.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Paving (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.30	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.3
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.05
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.33
Paving	0.00	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	6.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.29	2.87	0.05	—	0.05	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.87	0.05	—	0.05	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	2.05	0.03	—	0.03	0.03	—	0.03	—	370
Architectural Coatings	16.7	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.01	—	0.01	0.01	—	0.01	—	61.3
Architectural Coatings	3.05	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.06	0.00	0.04	0.04	0.00	0.01	0.01	0.12	53.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	< 0.005	51.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.05	0.00	0.03	0.03	0.00	0.01	0.01	0.04	36.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	6.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	2.91	0.08	—	0.08	0.08	—	0.08	—	370
Architectural Coatings	16.7	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.53	0.02	—	0.02	0.01	—	0.01	—	61.3
Architectural Coatings	3.05	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.06	0.00	0.04	0.04	0.00	0.01	0.01	0.12	53.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.07	0.00	0.04	0.04	0.00	0.01	0.01	< 0.005	51.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.05	0.00	0.03	0.03	0.00	0.01	0.01	0.04	36.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.01	6.09

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.83	0.04	—	0.04	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.83	0.04	—	0.04	0.04	—	0.04	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.51	0.01	—	0.01	0.01	—	0.01	—	93.3
Architectural Coatings	4.22	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.4

Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.06	0.00	0.04	0.04	0.00	0.01	0.01	0.11	52.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.07	0.00	0.04	0.04	0.00	0.01	0.01	< 0.005	50.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	9.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	4.07	0.12	—	0.12	0.11	—	0.11	—	518
Architectural Coatings	23.4	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.73	0.02	—	0.02	0.02	—	0.02	—	93.3
Architectural Coatings	4.22	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.13	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.4
Architectural Coatings	0.77	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.06	0.00	0.04	0.04	0.00	0.01	0.01	0.11	52.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.23	0.07	0.00	0.04	0.04	0.00	0.01	0.01	< 0.005	50.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	9.11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Trenching (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.23	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	8.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Trenching (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.26	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.26	0.01	—	0.01	0.01	—	0.01	—	44.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.77
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	8.21
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	9/1/2025	10/1/2025	5.00	23.0	—
Site Preparation	Site Preparation	10/1/2025	11/1/2025	5.00	23.0	—
Grading	Grading	11/1/2025	1/1/2026	5.00	44.0	—
Building Construction	Building Construction	5/1/2026	5/1/2028	5.00	522	—
Paving	Paving	1/1/2028	3/1/2028	5.00	43.0	—
Architectural Coating	Architectural Coating	1/1/2027	4/1/2028	5.00	326	—
Trenching/Foundation/Garage	Trenching	1/1/2026	5/1/2026	5.00	87.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	2.00	1.30	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	1.30	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.70	84.0	0.37
Demolition	Excavators	Diesel	Average	2.00	1.70	36.0	0.38
Site Preparation	Graders	Diesel	Average	2.00	0.80	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.60	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	0.90	367	0.40
Grading	Graders	Diesel	Average	2.00	1.60	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	0.80	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.60	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	1.60	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Average	2.00	0.80	33.0	0.73
Building Construction	Cranes	Diesel	Average	2.00	1.80	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	1.80	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.80	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	0.90	84.0	0.37
Building Construction	Welders	Diesel	Average	4.00	0.90	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	0.40	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	0.40	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	0.40	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	0.40	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	4.00	2.90	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	2.00	7.00	46.0	0.31

Trenching/Foundation/G	Tractors/Loaders/Backh	Diesel	Average	2.00	0.30	84.0	0.37
Trenching/Foundation/Garage	Excavators	Diesel	Average	2.00	0.30	36.0	0.38
Trenching/Foundation/Garage	Pumps	Diesel	Average	2.00	0.60	11.0	0.74

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	1.30	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.30	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.70	84.0	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	2.00	1.70	36.0	0.38
Site Preparation	Graders	Diesel	Tier 4 Interim	2.00	0.80	148	0.41
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.60	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	0.90	367	0.40
Grading	Graders	Diesel	Tier 4 Interim	2.00	1.60	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	0.80	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	1.60	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	2.00	1.60	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	0.80	33.0	0.73
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	1.80	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	1.80	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.80	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.90	84.0	0.37

Building Construction	Welders	Diesel	Tier 4 Interim	4.00	0.90	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	2.00	0.40	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	1.00	0.40	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	0.40	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	0.40	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	4.00	2.90	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	2.00	7.00	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.30	84.0	0.37
Trenching/Foundation/Garage	Excavators	Diesel	Tier 4 Interim	2.00	0.30	36.0	0.38
Trenching/Foundation/Garage	Pumps	Diesel	Average	2.00	0.60	11.0	0.74

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	0.36	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT

Grading	—	—	—	—
Grading	Worker	25.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	109	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	497	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	84.4	0.50	HHDT,MHDT
Building Construction	Hauling	14.7	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	0.00	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	99.5	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	15.0	0.50	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	0.50	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	20.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	0.36	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	109	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	497	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	84.4	0.50	HHDT,MHDT
Building Construction	Hauling	14.7	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	0.50	LDA,LDT1,LDT2
Paving	Vendor	—	0.50	HHDT,MHDT
Paving	Hauling	0.00	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—

Architectural Coating	Worker	99.5	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	15.0	0.50	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	0.50	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	1,080,412	360,137	17,156	5,719	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,000	—
Site Preparation	—	—	4.89	0.00	—
Grading	500	38,000	13.2	0.00	—
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%
Parking Lot	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	809	0.03	< 0.005
2027	0.00	809	0.03	< 0.005
2028	0.00	809	0.03	< 0.005
2025	0.00	809	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Land uses, total lot acreage, square footage, and number of parking spaces provided by project applicant in filled out construction worksheet.
Construction: Construction Phases	Construction schedule provided by filled out construction worksheet from project applicant.

Construction: Off-Road Equipment	Construction equipment quantity and hours provided by filled out cosntruction worksheet from project applicant.
Construction: Trips and VMT	Demolition = 15 tons pavement hauled (0.0714 trips/day), Building construction = 2,400 concrete truck round trips (14.724 trips/day). HRA 0.5 mile trip length for localized emissions.
Construction: On-Road Fugitive Dust	Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with trip adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code = no natural gas, convert to electricity.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

22-012 1298 Tripp Ave T4i 2030 HRA Custom Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	22-012 1298 Tripp Ave T4i 2030 HRA
Construction Start Date	6/1/2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	1.60
Location	1298 Tripp Ave, San Jose, CA 95116, USA
County	Santa Clara
City	San Jose
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1856
EDFZ	1
Electric Utility	San Jose Clean Energy
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.13

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	235	Dwelling Unit	1.49	206,018	0.00	0.00	703	—

Strip Mall	0.82	1000sqft	0.00	821	0.00	0.00	—	—
Enclosed Parking with Elevator	90.0	Space	0.00	44,101	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-5	Use Advanced Engine Tiers
Construction	C-10-B	Water Active Demolition Sites
Construction	C-10-C	Water Unpaved Construction Roads
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	16.8	0.65	3.04	3.69	0.60	0.95	1.55	0.33	3,247
Mit.	16.2	12.5	0.17	2.48	2.66	0.16	0.87	1.03	0.33	3,247
% Reduced	1%	26%	73%	18%	28%	73%	9%	33%	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	16.3	13.4	0.45	1.48	1.89	0.42	0.71	1.09	0.01	2,702
Mit.	16.2	12.5	0.19	1.48	1.51	0.18	0.71	0.75	0.01	2,702

% Reduced	1%	7%	57%	—	20%	56%	—	32%	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	8.08	2.89	0.11	0.43	0.54	0.10	0.14	0.24	0.02	566
Mit.	8.03	2.30	0.03	0.36	0.39	0.03	0.13	0.16	0.02	566
% Reduced	1%	20%	69%	16%	26%	69%	7%	32%	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	0.53	0.02	0.08	0.10	0.02	0.03	0.04	< 0.005	93.6
Mit.	1.47	0.42	0.01	0.07	0.07	0.01	0.02	0.03	< 0.005	93.6
% Reduced	1%	20%	69%	16%	26%	69%	7%	32%	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2027	1.97	16.8	0.65	3.04	3.69	0.60	0.95	1.55	0.14	3,247
2028	0.91	3.73	0.12	0.09	0.21	0.11	0.02	0.13	0.33	813
2029	16.3	1.40	0.02	0.01	0.03	0.02	< 0.005	0.02	0.04	273
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2027	1.50	13.4	0.45	1.48	1.89	0.42	0.71	1.09	0.01	2,702
2028	0.33	2.30	0.08	0.01	0.09	0.08	< 0.005	0.08	< 0.005	380
2029	16.3	1.40	0.02	0.01	0.03	0.02	< 0.005	0.02	< 0.005	272
Average Daily	—	—	—	—	—	—	—	—	—	—
2027	0.33	2.89	0.11	0.43	0.54	0.10	0.14	0.24	0.02	566
2028	0.15	0.73	0.02	0.01	0.04	0.02	< 0.005	0.03	0.02	144
2029	8.08	0.70	0.01	0.01	0.02	0.01	< 0.005	0.01	0.01	135

Annual	—	—	—	—	—	—	—	—	—	—
2027	0.06	0.53	0.02	0.08	0.10	0.02	0.03	0.04	< 0.005	93.6
2028	0.03	0.13	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	23.8
2029	1.47	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	22.3

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—
2027	0.54	12.5	0.17	2.48	2.66	0.16	0.87	1.03	0.14	3,247
2028	0.82	3.86	0.10	0.09	0.18	0.09	0.02	0.11	0.33	813
2029	16.2	2.01	0.06	0.01	0.07	0.05	< 0.005	0.06	0.04	273
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—
2027	0.69	12.5	0.19	1.48	1.51	0.18	0.71	0.75	0.01	2,702
2028	0.29	2.47	0.08	0.01	0.09	0.07	< 0.005	0.08	< 0.005	380
2029	16.2	2.02	0.06	0.01	0.07	0.05	< 0.005	0.06	< 0.005	272
Average Daily	—	—	—	—	—	—	—	—	—	—
2027	0.11	2.30	0.03	0.36	0.39	0.03	0.13	0.16	0.02	566
2028	0.13	0.76	0.02	0.01	0.03	0.02	< 0.005	0.02	0.02	144
2029	8.03	1.00	0.03	0.01	0.03	0.03	< 0.005	0.03	0.01	135
Annual	—	—	—	—	—	—	—	—	—	—
2027	0.02	0.42	0.01	0.07	0.07	0.01	0.02	0.03	< 0.005	93.6
2028	0.02	0.14	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	23.8
2029	1.47	0.18	0.01	< 0.005	0.01	< 0.005	< 0.005	0.01	< 0.005	22.3

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	7.24	0.24	—	0.24	0.22	—	0.22	—	1,336
Demolition	—	—	—	1.54	1.54	—	0.23	0.23	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.87	0.03	—	0.03	0.03	—	0.03	—	161
Demolition	—	—	—	0.19	0.19	—	0.03	0.03	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.16	0.01	—	0.01	< 0.005	—	< 0.005	—	26.7
Demolition	—	—	—	0.03	0.03	—	0.01	0.01	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.04	16.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	0.41	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.09	90.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.9
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.80

3.2. Demolition (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	6.62	0.14	—	0.14	0.13	—	0.13	—	1,336
Demolition	—	—	—	0.98	0.98	—	0.15	0.15	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.80	0.02	—	0.02	0.02	—	0.02	—	161
Demolition	—	—	—	0.12	0.12	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.15	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.7
Demolition	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.04	16.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.41	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.09	90.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.9
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.31
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.80

3.3. Site Preparation (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.04	9.15	0.41	—	0.41	0.38	—	0.38	—	1,796
Dust From Material Movement	—	—	—	1.47	1.47	—	0.71	0.71	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	9.15	0.41	—	0.41	0.38	—	0.38	—	1,796
Dust From Material Movement	—	—	—	1.47	1.47	—	0.71	0.71	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.13	0.05	—	0.05	0.05	—	0.05	—	221
Dust From Material Movement	—	—	—	0.18	0.18	—	0.09	0.09	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.01	—	0.01	0.01	—	0.01	—	36.7
Dust From Material Movement	—	—	—	0.03	0.03	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	8.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	5.46	0.03	—	0.03	0.03	—	0.03	—	1,796
Dust From Material Movement	—	—	—	1.47	1.47	—	0.71	0.71	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	5.46	0.03	—	0.03	0.03	—	0.03	—	1,796
Dust From Material Movement	—	—	—	1.47	1.47	—	0.71	0.71	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.67	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	221
Dust From Material Movement	—	—	—	0.18	0.18	—	0.09	0.09	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.7
Dust From Material Movement	—	—	—	0.03	0.03	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	8.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	7.75
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	9.18	0.36	—	0.36	0.33	—	0.33	—	1,910
Dust From Material Movement	—	—	—	0.85	0.85	—	0.39	0.39	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.58	0.02	—	0.02	0.02	—	0.02	—	120
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	12.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.87	< 0.005	0.05	0.06	< 0.005	0.01	0.02	0.01	398
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	25.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.14

3.6. Grading (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	8.12	0.11	—	0.11	0.10	—	0.10	—	1,910
Dust From Material Movement	—	—	—	0.85	0.85	—	0.39	0.39	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.51	0.01	—	0.01	0.01	—	0.01	—	120
Dust From Material Movement	—	—	—	0.05	0.05	—	0.02	0.02	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.9
Dust From Material Movement	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	12.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.07	1.87	< 0.005	0.05	0.06	< 0.005	0.01	0.02	0.01	398
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.82

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.11	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	25.0
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.13
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.14

3.7. Building Construction (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.92	0.04	—	0.04	0.03	—	0.03	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.89
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.45	0.11	0.00	0.07	0.07	0.00	0.02	0.02	0.20	98.6
Vendor	0.02	0.35	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.10	83.7
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	11.8
Vendor	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	10.3
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.35
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.95
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.71
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.22

3.8. Building Construction (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.89	0.01	—	0.01	0.01	—	0.01	—	240
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.89
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.11	0.00	0.07	0.07	0.00	0.02	0.02	0.20	98.6
Vendor	0.02	0.35	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.10	83.7
Hauling	< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	10.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	11.8
Vendor	< 0.005	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	10.3
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.35
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.95
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.71
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.22

3.9. Architectural Coating (2029) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.38	0.02	—	0.02	0.02	—	0.02	—	253

Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.38	0.02	—	0.02	0.02	—	0.02	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.68	0.01	—	0.01	0.01	—	0.01	—	126
Architectural Coatings	7.97	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.8
Architectural Coatings	1.45	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.04	19.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	18.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	9.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Architectural Coating (2029) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.99	0.06	—	0.06	0.05	—	0.05	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.99	0.06	—	0.06	0.05	—	0.05	—	253
Architectural Coatings	16.1	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.99	0.03	—	0.03	0.03	—	0.03	—	126
Architectural Coatings	7.97	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.18	0.01	—	0.01	< 0.005	—	< 0.005	—	20.8
Architectural Coatings	1.45	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.04	19.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	18.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.01	9.32
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Trenching (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.31	0.09	—	0.09	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.14	0.01	—	0.01	< 0.005	—	< 0.005	—	22.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.72
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Trenching (2027) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	22.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.72
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Trenching (2028) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.29	0.08	—	0.08	0.08	—	0.08	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	2.29	0.08	—	0.08	0.08	—	0.08	—	370

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.02	—	0.02	0.02	—	0.02	—	88.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Trenching (2028) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.07	—	0.07	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.46	0.08	—	0.08	0.07	—	0.07	—	370
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.59	0.02	—	0.02	0.02	—	0.02	—	88.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.02	10.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	10.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	2.43
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/1/2027	8/1/2027	5.00	44.0	—
Site Preparation	Site Preparation	8/1/2027	10/1/2027	5.00	45.0	—
Grading	Grading	11/1/2027	12/1/2027	5.00	23.0	—
Building Construction	Building Construction	5/1/2028	7/1/2028	5.00	45.0	—
Architectural Coating	Architectural Coating	2/1/2029	10/11/2029	5.00	181	—
Trenching/Foundation/Garage	Trenching	12/1/2027	5/1/2028	5.00	109	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	4.00	3.10	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	1.60	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	2.00	3.10	84.0	0.37
Demolition	Excavators	Diesel	Average	4.00	2.50	36.0	0.38
Site Preparation	Graders	Diesel	Average	2.00	3.20	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	3.20	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	3.20	84.0	0.37
Grading	Graders	Diesel	Average	2.00	3.30	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	1.70	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	6.70	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	7.30	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Average	2.00	1.70	33.0	0.73
Building Construction	Cranes	Diesel	Average	1.00	1.10	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	1.10	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.10	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	2.00	0.30	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	0.20	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Average	2.00	3.10	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Average	2.00	3.10	46.0	0.31
Trenching/Foundation/Garage	Tractors/Loaders/Backhoes	Diesel	Average	2.00	1.30	84.0	0.37
Trenching/Foundation/Garage	Pumps	Diesel	Average	4.00	5.60	11.0	0.74

Trenching/Foundation/G	Excavators	Diesel	Average	2.00	1.30	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	4.00	3.10	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.60	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	3.10	84.0	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	4.00	2.50	36.0	0.38
Site Preparation	Graders	Diesel	Tier 4 Interim	2.00	3.20	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	3.20	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	3.20	84.0	0.37
Grading	Graders	Diesel	Tier 4 Interim	2.00	3.30	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	1.70	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	6.70	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Interim	2.00	7.30	36.0	0.38
Grading	Concrete/Industrial Saws	Diesel	Tier 4 Interim	2.00	1.70	33.0	0.73
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	1.10	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	2.00	1.10	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	1.10	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	2.00	0.30	84.0	0.37
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	0.20	46.0	0.45
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	2.00	3.10	37.0	0.48
Architectural Coating	Aerial Lifts	Diesel	Tier 4 Interim	2.00	3.10	46.0	0.31

Trenching/Foundation/G	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	2.00	1.30	84.0	0.37
Trenching/Foundation/Garage	Pumps	Diesel	Average	4.00	5.60	11.0	0.74
Trenching/Foundation/Garage	Excavators	Diesel	Tier 4 Interim	2.00	1.30	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	26.0	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	114	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	188	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	32.5	0.50	HHDT,MHDT

Building Construction	Hauling	3.21	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	37.6	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	20.0	0.50	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	0.50	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	26.0	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	15.0	0.50	LDA,LDT1,LDT2
Site Preparation	Vendor	—	0.50	HHDT,MHDT
Site Preparation	Hauling	0.00	0.50	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	0.50	LDA,LDT1,LDT2

Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	114	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	188	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	32.5	0.50	HHDT,MHDT
Building Construction	Hauling	3.21	0.50	HHDT
Building Construction	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	37.6	0.50	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	0.50	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.50	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Trenching/Foundation/Garage	—	—	—	—
Trenching/Foundation/Garage	Worker	20.0	0.50	LDA,LDT1,LDT2
Trenching/Foundation/Garage	Vendor	—	0.50	HHDT,MHDT
Trenching/Foundation/Garage	Hauling	0.00	0.50	HHDT
Trenching/Foundation/Garage	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	417,186	139,062	1,232	411	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	67,000	—
Site Preparation	—	—	36.0	0.00	—
Grading	—	21,000	14.4	0.00	—

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Strip Mall	0.00	0%
Enclosed Parking with Elevator	0.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	809	0.03	< 0.005
2028	0.00	809	0.03	< 0.005
2029	0.00	809	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	San Jose Clean Energy 2020 rate = 178 lb/MWh.
Land Use	Total lot acreage, square footage, land uses, and number of parking spaces provided by project construction worksheet filled out by applicant.
Construction: Construction Phases	Construction schedule provided by project applicant in construction worksheet.
Construction: Off-Road Equipment	Construction equipment and hours provided by filled out construction worksheet from applicant.
Construction: Trips and VMT	Demolition = 2,000 tons pavement hauling (8.8889 trips/day). Building construction = 490 concrete truck round trips (3.21 trips/day). HRA 0.5 mile trip length for localized emissions.
Construction: On-Road Fugitive Dust	Air District BMP for Construction-Related Fugitive Dust Emissions.
Operations: Vehicle Data	Provided trip gen with reduction adjustments.
Operations: Hearths	No hearths.
Operations: Energy Use	San Jose REACH Code = No natural gas, convert to all electric.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

Attachment 2: Project Construction Emissions and Health Risk Calculations

1347 E Julian Unmitigated Construction Air Pollutants		
Unmitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024	0.0086	0.0114
2025	0.0037	0.0001
2026		
2027		
2028		
2029		
Tons	0.01	0.01

1347 E Julian Mitigated Construction Air Pollutants		
Mitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024	0.0005	0.0114
2025	0.0022	0.0001
2026		
2027		
2028		
2029		
Tons	0.00	0.01

1325 E Julian Unmitigated Construction Air Pollutants		
Unmitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024		
2025	0.0077	0.0068
2026	0.0101	0.0047
2027	0.0193	0.0080
2028	0.0056	0.0026
2029		
Tons	0.04	0.02

1325 E Julian Mitigated Construction Air Pollutants		
Mitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024		
2025	0.0014	0.0067
2026	0.0045	0.0047
2027	0.0193	0.0080
2028	0.0060	0.0026
2029		
Tons	0.03	0.02

1298 Tripp Ave Unmitigated Construction Air Pollutants		
Unmitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024		
2025		
2026		
2027	0.0197	0.0260
2028	0.0044	0.0005
2029	0.0015	0.0003
Tons	0.03	0.03

1298 Tripp Ave Mitigated Construction Air Pollutants		
Mitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024		
2025		
2026		
2027	0.0060	0.0241
2028	0.0039	0.0005
2029	0.0051	0.0003
Tons	0.02	0.02

Total Unmitigated Construction Air Pollutants		
Unmitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024	0.0086	0.0114
2025	0.0114	0.0069
2026	0.0101	0.0047
2027	0.0390	0.0339
2028	0.0100	0.0031
2029	0.0015	0.0003
Tons	0.08	0.06

Total Mitigated Construction Air Pollutants		
Mitigated	PM10 Exhaust	PM2.5 Fugitive
Year		
Construction		
2024	0.0005	0.0114
2025	0.0036	0.0068
2026	0.0045	0.0047
2027	0.0254	0.0321
2028	0.0098	0.0031
2029	0.0051	0.0003
Tons	0.05	0.06

E. Julian St & Tripp Ave Residential, San Jose

DPM Emissions and Modeling Emission Rates - Unmitigated

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2024	1347 E Julian St	0.0086	24_1347_D	17.2	0.00550	6.93E-04	2,116	3.28E-07
2025	1347 E Julian St	0.0037	25_1347_D	7.5	0.00239	3.02E-04	2,116	1.43E-07
2027	1298 Tripp Ave	0.0197	25_1298_D	39.4	0.01262	1.59E-03	5,970	2.66E-07
2028	1298 Tripp Ave	0.0044	26_1298_D	8.9	0.00285	3.59E-04	5,970	6.01E-08
2029	1298 Tripp Ave	0.0015	27_1298_D	3.1	0.00099	1.25E-04	5,970	2.09E-08
2025	1325 E Julian St	0.0077	26_1325_D	15.4	0.00492	6.20E-04	12,172	5.10E-08
2026	1325 E Julian St	0.0101	27_1325_D	20.2	0.00649	8.17E-04	12,172	6.71E-08
2027	1325 E Julian St	0.0193	27_1325_D	38.7	0.01240	1.56E-03	12,172	1.28E-07
2028	1325 E Julian St	0.0056	28_1325_D	11.2	0.00357	4.50E-04	12,172	3.70E-08
Total		***0.0807***		***161.4***	***0.0517***	***0.0065***		

Modeled Construction Hours

hr/day = 12 (7am - 7pm Mon-Fri)

days/yr = 260

hours/year = 3120

DPM Construction Emissions and Modeling Emission Rates - With Mitigation

Construction Year	Activity	DPM (ton/year)	Area Source	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Modeled Area (m^2)	DPM Emission Rate ($g/s/m^2$)
2024	1347 E Julian St	0.0005	24_1347_D	1.0	0.00033	4.18E-05	2,116	1.97E-08
2025	1347 E Julian St	0.0022	25_1347_D	4.3	0.00139	1.75E-04	2,116	8.29E-08
2027	1298 Tripp Ave	0.0060	25_1298_D	12.1	0.00387	4.87E-04	5,970	8.16E-08
2028	1298 Tripp Ave	0.0039	26_1298_D	7.7	0.00247	3.12E-04	5,970	5.22E-08
2029	1298 Tripp Ave	0.0051	27_1298_D	10.3	0.00330	4.16E-04	5,970	6.97E-08
2025	1325 E Julian St	0.0014	26_1325_D	2.9	0.00093	1.17E-04	12,172	9.60E-09
2026	1325 E Julian St	0.0045	27_1325_D	9.0	0.00289	3.65E-04	12,172	3.00E-08
2027	1325 E Julian St	0.0193	27_1325_D	38.7	0.01240	1.56E-03	12,172	1.28E-07
2028	1325 E Julian St	0.0060	28_1325_D	11.9	0.00382	4.82E-04	12,172	3.96E-08
Total		***0.0490***		***98.0***	***0.0314***	***0.0040***		

Modeled Construction Hours

hr/day = 12 (7am - 7pm Mon-Fri)

days/yr = 260

hours/year = 3120

PM2.5 Fugitive Dust Emissions for Modeling - Unmitigated

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2024	1347 E Julian St	24_1347_F	0.0114	22.9	0.00734	9.25E-04	2,116	4.37E-07
2025	1347 E Julian St	25_1347_F	0.0001	0.2	0.00007	8.51E-06	2,116	4.02E-09
2027	1298 Tripp Ave	25_1298_F	0.0260	51.9	0.01664	2.10E-03	5,970	3.51E-07
2028	1298 Tripp Ave	26_1298_F	0.0005	1.0	0.00033	4.17E-05	5,970	6.98E-09
2029	1298 Tripp Ave	27_1298_F	0.0003	0.6	0.00018	2.27E-05	5,970	3.81E-09
2025	1325 E Julian St	26_1325_F	0.0068	13.5	0.00433	5.45E-04	12,172	4.48E-08
2026	1325 E Julian St	27_1325_F	0.0047	9.5	0.00304	3.83E-04	12,172	3.15E-08
2027	1325 E Julian St	27_1325_F	0.0080	15.9	0.00510	6.42E-04	12,172	5.28E-08
2028	1325 E Julian St	28_1325_F	0.0026	5.2	0.00166	2.09E-04	12,172	1.72E-08
Total			***0.0604***	***120.7***	***0.0387***	***0.0049***		

Modeled Construction Hours

hr/day =	12	(7am - 7pm Mon-Fri)
days/yr =	260	
hours/year =	3120	

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

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	PM2.5 Emissions (lb/yr)	PM2.5 Emissions (lb/hr)	PM2.5 Emissions (g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2024	1347 E Julian St	24_1347_F	0.0114	22.9	0.00734	9.25E-04	2,116	4.37E-07
2025	1347 E Julian St	25_1347_F	0.0001	0.2	0.00007	8.51E-06	2,116	4.02E-09
2027	1298 Tripp Ave	25_1298_F	0.0241	48.2	0.01546	1.95E-03	5,970	3.26E-07
2028	1298 Tripp Ave	26_1298_F	0.0005	1.0	0.00033	4.17E-05	5,970	6.98E-09
2029	1298 Tripp Ave	27_1298_F	0.0003	0.6	0.00018	2.27E-05	5,970	3.81E-09
2025	1325 E Julian St	26_1325_F	0.0067	13.4	0.00431	5.43E-04	12,172	4.46E-08
2026	1325 E Julian St	27_1325_F	0.0047	9.5	0.00304	3.83E-04	12,172	3.15E-08
2027	1325 E Julian St	27_1325_F	0.0080	15.9	0.00510	6.42E-04	12,172	5.28E-08
2028	1325 E Julian St	28_1325_F	0.0026	5.2	0.00166	2.09E-04	12,172	1.72E-08
Total			***0.0585***	***117.0***	***0.0375***	***0.0047***		

Modeled Construction Hours

hr/day =	12	(7am - 7pm Mon-Fri)
days/yr =	260	
hours/year =	3120	

E. Julian St & Tripp Ave Residential, San Jose - Construction Health Impact Summary

Maximum Impacts at Off-Site MEI Residential Location - Without Mitigation

Emissions Year	Maximum Exhaust PM10/DPM ($\mu g/m^3$)	Maximum Cancer Risk (per million) Infant/Child	Hazard Index (-)	Maximum Annual PM2.5 Concentration ($\mu g/m^3$)
2024	0.0237	0.32	0.005	0.285
2025	0.0275	4.52	0.006	0.054
2026	0.0226	3.71	0.005	0.040
2027	0.0466	1.21	0.009	0.335
2028	0.0133	0.34	0.003	0.023
2029	0.0003	0.01	0.000	0.007
Total	-	**10.11**	-	-
Maximum	0.0466	**-**	**0.009**	**0.335**

Maximum Impacts at Off-Site MEI Residential Location - With Mitigation

Emissions Year	Maximum Exhaust PM10/DPM ($\mu g/m^3$)	Maximum Cancer Risk (per million) Infant/Child	Hazard Index (-)	Maximum Annual PM2.5 Concentration* ($\mu g/m^3$)
2024	0.0026	0.04	0.001	0.244
2025	0.0136	2.23	0.003	0.036
2026	0.0078	1.28	0.002	0.028
2027	0.0343	0.89	0.007	0.281
2028	0.0110	0.28	0.002	0.024
2029	0.0003	0.01	0.000	0.007
Total	-	**4.72**	-	-
Maximum	0.0343	**-**	**0.007**	**0.2808**

E. Julian St & Tripp Ave-Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
Construction Impacts - Unmitigated Emissions
Off-Site Residential Receptors, 1st Floor (1.5 meter receptor heights)

Receptor Information

Number of Receptors	317
Receptor Height =	1.5 meters
Receptor spacing =	variable, at residential locations

Meteorological Conditions

San Jose Airport BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2024 - Construction	0.02372
2025 - Construction	0.02751
2026 - Construction	0.02259
2027 - Construction	0.04664
2028 - Construction	0.01326
2029 - Construction	0.00028

E. Julian St & Tripp Ave-Construction DPM/PM2.5 Modeling Information
AERMOD Risk Modeling Parameters and Maximum Concentrations
Construction Impacts - Mitigated Emissions
Off-Site Residential Receptors, 1st Floor (1.5 meter receptor heights)

Receptor Information

Number of Receptors	317
Receptor Height =	1.5 meters
Receptor spacing =	variable, at residential locations

Meteorological Conditions

San Jose Airport BAAQMD Hourly Data	2013-2017
Land Use Classification	Urban
Wind speed =	variable
Wind direction =	variable

MEI Maximum Concentrations

Emission Period	DPM Concentration ($\mu g/m^3$)
2024 - Construction	0.00263
2025 - Construction	0.01355
2026 - Construction	0.00778
2027 - Construction	0.03433
2028 - Construction	0.01100
2029 - Construction	0.00029

E. Julian St & Tripp Ave Residential, San Jose - Construction Impacts
Maximum DPM Cancer Risk Calculations From Construction - Unmitigated
Off-Site Residential Receptors, 1st Floor (1.5 meter receptor heights)
Residential Exposure (30-year)

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 $(mg/kg\text{-}day)^{-1}$
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 $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)

10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
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

				Maximum - Exposure Information			Maximum	
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Hazard Index	Total PM2.5
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0237	0.32	0.0047	0.285
1	2025	1	1	10	0.0275	4.52	0.0055	0.054
2	2026	1	2	10	0.0226	3.71	0.0045	0.040
3	2027	1	3	3	0.0466	1.21	**0.0093**	**0.335**
4	2028	1	4	3	0.0133	0.34	0.0027	0.023
5	2029	1	5	3	0.0003	0.01	0.0001	0.007
6	2030	1	6	3	0.0000	0.00		
7	2031	1	7	3	0.0000	0.00		
8	2032	1	8	3	0.0000	0.00		
9	2033	1	9	3	0.0000	0.00		
10	2034	1	10	3	0.0000	0.00		
11	2035	1	11	3	0.0000	0.00		
12	2036	1	12	3	0.0000	0.00		
13	2037	1	13	3	0.0000	0.00		
14	2038	1	14	3	0.0000	0.00		
15	2039	1	15	3	0.0000	0.00		
16	2040	1	16	3	0.0000	0.00		
17	2041	1	17	1	0.0000	0.000		
18	2042	1	18	1	0.0000	0.000		
19	2043	1	19	1	0.0000	0.000		
20	2044	1	20	1	0.0000	0.000		
21	2045	1	21	1	0.0000	0.000		
22	2046	1	22	1	0.0000	0.000		
23	2047	1	23	1	0.0000	0.000		
24	2048	1	24	1	0.0000	0.000		
25	2049	1	25	1	0.0000	0.000		
26	2050	1	26	1	0.0000	0.000		
27	2051	1	27	1	0.0000	0.000		
28	2052	1	28	1	0.0000	0.000		
29	2053	1	29	1	0.0000	0.000		
30	2054	1	30	1	0.0000	0.000		
Total Increased Cancer Risk						**10.11**		

* Third trimester of pregnancy

Total PM2.5 Concentrations - Unmitigated
Project Construction
Off-Site Residential Receptors - 1.5 meter residential receptor heights

Receptor			Construction					
			Total PM2.5 Concentrations (Fugitive + Exhaust)					
No.	UTM-X	UTM-Y	2024	2025	2026	2027	2028	2029
1	600233.94	4134745.69	0.11854	0.03974	0.02893	0.06009	0.01668	0.00029
2	600225.12	4134737.12	0.13922	0.05398	0.04045	0.08185	0.02312	0.00034
3	600223.10	4134750.23	0.08755	0.04371	0.03264	0.06695	0.01873	0.0003
4	600213.02	4134763.09	0.05245	0.03922	0.03072	0.06302	0.01763	0.00028
5	600203.69	4134773.68	0.03678	0.03634	0.02957	0.06054	0.01696	0.00027
6	600197.89	4134784.77	0.02727	0.03131	0.02604	0.05361	0.01497	0.00025
7	600188.31	4134795.10	0.02109	0.02925	0.02485	0.05105	0.01428	0.00023
8	600179.24	4134805.44	0.01685	0.02695	0.02321	0.04769	0.01334	0.00022
9	600167.39	4134815.02	0.01398	0.02652	0.02307	0.04715	0.01324	0.00021
10	600161.59	4134826.11	0.01153	0.02202	0.01922	0.03981	0.01108	0.0002
11	600151.00	4134836.45	0.00977	0.02011	0.01758	0.03663	0.01017	0.00019
12	600142.43	4134846.54	0.00844	0.01742	0.01521	0.03216	0.00884	0.00018
13	600130.08	4134854.85	0.00749	0.01673	0.01455	0.03094	0.00848	0.00018
14	600124.03	4134867.71	0.00642	0.01226	0.01069	0.02375	0.00634	0.00017
15	600114.95	4134877.29	0.00574	0.01064	0.00931	0.02121	0.00557	0.00017
16	600106.13	4134887.88	0.00511	0.00915	0.00805	0.01887	0.00487	0.00017
17	600133.10	4134911.58	0.00403	0.00501	0.00428	0.01088	0.00288	0.00012
18	600143.69	4134902.50	0.00440	0.00528	0.00449	0.01127	0.0028	0.00012
19	600153.77	4134892.92	0.00486	0.00563	0.00475	0.01179	0.00294	0.00012
20	600165.12	4134884.60	0.00532	0.00583	0.00488	0.01204	0.00301	0.00012
21	600170.67	4134872.50	0.00611	0.00674	0.00563	0.0136	0.00345	0.00013
22	600179.99	4134861.41	0.00701	0.00749	0.00623	0.01484	0.00379	0.00014
23	600191.59	4134853.09	0.00780	0.00778	0.00639	0.01521	0.00389	0.00014
24	600200.41	4134842.25	0.00907	0.00869	0.00709	0.01668	0.00429	0.00015
25	600205.71	4134829.64	0.01100	0.01047	0.00854	0.01965	0.00512	0.00016
26	600215.79	4134820.57	0.01267	0.01111	0.00892	0.02054	0.00535	0.00017
27	600224.36	4134808.97	0.01543	0.01256	0.00995	0.02271	0.00595	0.00018
28	600235.46	4134800.40	0.01737	0.01287	0.01000	0.02294	0.00599	0.00018
29	600241.76	4134788.30	0.02184	0.01493	0.01145	0.02592	0.00681	0.00019
30	600251.09	4134777.96	0.02510	0.01588	0.01203	0.02718	0.00716	0.0002
31	600260.16	4134767.63	0.02802	0.01674	0.01261	0.0284	0.00749	0.00021
32	600271.76	4134754.26	0.03275	0.01784	0.01333	0.02989	0.00791	0.00022
33	600277.56	4134745.19	0.04017	0.01936	0.01419	0.03164	0.0084	0.00022
34	600279.32	4134697.79	0.28481	0.05046	0.02861	0.06091	0.01666	0.00035
35	600300.50	4134716.95	0.07785	0.02582	0.01567	0.03486	0.00928	0.00025
36	600289.91	4134728.55	0.06425	0.02310	0.01536	0.0341	0.00909	0.00024
37	600311.09	4134723.51	0.04405	0.01885	0.01244	0.02826	0.00743	0.00022
38	600320.92	4134734.85	0.02355	0.01314	0.00947	0.02212	0.00572	0.00019
39	600330.00	4134742.67	0.01622	0.01031	0.00771	0.01845	0.0047	0.00017
40	600339.07	4134749.98	0.01212	0.00835	0.00637	0.01564	0.00393	0.00016
41	600309.07	4134791.58	0.00779	0.00618	0.00489	0.01257	0.00307	0.00014
42	600297.47	4134796.87	0.00803	0.00641	0.00507	0.01297	0.00317	0.00014
43	600289.41	4134811.24	0.00700	0.00564	0.00445	0.01165	0.00282	0.00014
44	600280.84	4134817.54	0.00708	0.00561	0.00441	0.01154	0.00279	0.00013
45	600266.47	4134825.61	0.00759	0.00579	0.00450	0.01168	0.00283	0.00013
46	600264.45	4134839.73	0.00636	0.00483	0.00374	0.00999	0.00239	0.00012
47	600252.60	4134851.58	0.00616	0.00459	0.00353	0.00945	0.00226	0.00012
48	600242.52	4134857.38	0.00622	0.00464	0.00357	0.00947	0.00228	0.00012
49	600231.93	4134870.74	0.00563	0.00425	0.00329	0.00877	0.0021	0.00011
50	600228.15	4134884.60	0.00487	0.00370	0.00287	0.00779	0.00185	0.0001
51	600210.25	4134886.87	0.00505	0.00409	0.00322	0.00851	0.00205	0.0001
52	600210.75	4134906.28	0.00411	0.00328	0.00257	0.00704	0.00166	0.00009
53	600202.68	4134917.38	0.00376	0.00307	0.00243	0.00668	0.00157	0.00009
54	600195.12	4134925.70	0.00352	0.00295	0.00235	0.00648	0.00152	0.00009
55	600180.50	4134934.77	0.00328	0.00293	0.00236	0.0065	0.00153	0.00009
56	600171.93	4134945.61	0.00301	0.00276	0.00224	0.00622	0.00146	0.00008
57	600111.21	4134872.51	0.00265	0.00440	0.00395	0.32017	0.01787	0.00651
58	600125.42	4134864.49	0.00276	0.00482	0.00435	0.23087	0.01793	0.00607
59	600129.07	4134854.28	0.00245	0.00414	0.00373	0.21128	0.01823	0.0062
60	600137.81	4134842.62	0.00224	0.00378	0.00341	0.17805	0.01693	0.00569
61	600146.20	4134583.94	0.00110	0.00162	0.00145	0.10685	0.01092	0.00378
62	600077.31	4134545.67	0.00050	0.00059	0.00051	0.04341	0.00442	0.00154
63	599978.17	4134828.51	0.00315	0.00455	0.00402	0.02082	0.00359	0.00051
64	599994.94	4134812.83	0.00342	0.00501	0.00443	0.02428	0.00408	0.00061
65	600235.60	4134520.44	0.00137	0.00233	0.00212	0.04464	0.0053	0.00153
66	600243.52	4134511.34	0.00136	0.00230	0.00209	0.04101	0.00493	0.0014
67	600226.89	4134468.19	0.00078	0.00113	0.00101	0.02715	0.00316	0.00097
68	600234.41	4134457.51	0.00076	0.00110	0.00098	0.0246	0.0029	0.00087
69	600184.54	4134431.78	0.00044	0.00056	0.00049	0.01445	0.0017	0.00053
70	600177.61	4134442.46	0.00045	0.00057	0.00050	0.01589	0.00185	0.00058
71	600168.90	4134448.20	0.00044	0.00056	0.00049	0.01617	0.00187	0.00059
72	600161.38	4134460.47	0.00045	0.00057	0.00050	0.01828	0.00209	0.00067
73	600152.48	4134467.40	0.00045	0.00056	0.00049	0.01897	0.00215	0.0007
74	600148.32	4134481.85	0.00047	0.00061	0.00053	0.02316	0.00259	0.00085
75	600139.22	4134423.86	0.00032	0.00039	0.00033	0.00875	0.00105	0.00032
76	600131.50	4134434.94	0.00033	0.00039	0.00034	0.00942	0.00112	0.00035
77	600122.39	4134443.26	0.00032	0.00039	0.00034	0.0096	0.00114	0.00035
78	600113.09	4134451.96	0.00032	0.00039	0.00033	0.00981	0.00116	0.00036
79	600105.77	4134464.63	0.00033	0.00040	0.00034	0.01096	0.00128	0.0004
80	600098.64	4134472.94	0.00033	0.00040	0.00035	0.01147	0.00133	0.00042

Receptor No.	UTM-X	UTM-Y	Construction Total PM2.5 Concentrations (Fugitive + Exhaust) 2024	2025	2026	2027	2028	2029
81	600058.73	4134918.13	0.00373	0.00639	0.00570	0.01494	0.00361	0.00018
82	600067.81	4134926.71	0.00352	0.00554	0.00491	0.01301	0.00313	0.00016
83	600077.13	4134934.52	0.00331	0.00487	0.00428	0.01146	0.00274	0.00014
84	600086.97	4134942.59	0.00309	0.00426	0.00372	0.01006	0.00239	0.00013
85	600098.31	4134952.17	0.00285	0.00366	0.00317	0.00867	0.00205	0.00011
86	600102.60	4134942.08	0.00309	0.00404	0.00350	0.00938	0.00224	0.00012
87	600111.42	4134949.14	0.00290	0.00359	0.00308	0.00836	0.00199	0.00011
88	600109.40	4134933.51	0.00332	0.00434	0.00375	0.00988	0.00239	0.00012
89	600118.48	4134940.82	0.00310	0.00380	0.00326	0.00871	0.00209	0.00011
90	600109.40	4134962.25	0.00261	0.00316	0.00270	0.0075	0.00176	0.0001
91	600117.97	4134970.57	0.00245	0.00282	0.00239	0.00671	0.00157	0.00009
92	600122.26	4134959.73	0.00266	0.00307	0.00260	0.00719	0.00169	0.0001
93	600128.56	4134966.03	0.00254	0.00281	0.00237	0.00661	0.00155	0.00009
94	600127.81	4134979.65	0.00230	0.00250	0.00210	0.00596	0.00138	0.00008
95	600133.35	4134983.93	0.00224	0.00236	0.00197	0.00563	0.0013	0.00008
96	600139.66	4134992.00	0.00213	0.00216	0.00179	0.00516	0.00119	0.00008
97	600146.97	4134984.69	0.00224	0.00222	0.00183	0.00525	0.00121	0.00008
98	600142.18	4134974.35	0.00240	0.00246	0.00205	0.00579	0.00135	0.00008
99	600147.47	4134967.55	0.00253	0.00255	0.00211	0.00594	0.00138	0.00008
100	600155.79	4134976.12	0.00239	0.00229	0.00187	0.00535	0.00124	0.00008
101	600177.00	4134605.99	0.00193	0.00362	0.00331	0.10047	0.01106	0.00344
102	600153.12	4134633.51	0.00227	0.00411	0.00373	0.14136	0.01456	0.00469
103	600160.96	4134624.76	0.00215	0.00395	0.00359	0.12561	0.0133	0.00424
104	600168.43	4134615.10	0.00201	0.00371	0.00339	0.1125	0.01214	0.00384
105	600145.47	4134626.58	0.00189	0.00314	0.00283	0.15033	0.01504	0.00506
106	600168.07	4134599.25	0.00161	0.00275	0.00250	0.10471	0.01115	0.00364
107	600158.59	4134591.77	0.00134	0.00212	0.00191	0.10658	0.01109	0.00375
108	600150.94	4134600.88	0.00140	0.00219	0.00197	0.12081	0.01237	0.00422
109	600142.73	4134611.09	0.00149	0.00230	0.00206	0.13953	0.01398	0.00481
110	600135.99	4134618.75	0.00156	0.00237	0.00212	0.15711	0.01537	0.00533
111	600135.81	4134571.73	0.00089	0.00124	0.00110	0.09846	0.0098	0.00343
112	600130.16	4134578.10	0.00092	0.00126	0.00111	0.10708	0.01075	0.00379
113	600124.51	4134585.03	0.00095	0.00129	0.00114	0.12016	0.0119	0.00422
114	600117.95	4134593.05	0.00099	0.00133	0.00117	0.13788	0.0134	0.00478
115	600118.13	4134566.99	0.00076	0.00099	0.00087	0.09265	0.00928	0.00329
116	600113.39	4134562.25	0.00070	0.00090	0.00079	0.08486	0.00851	0.00301
117	600105.92	4134556.42	0.00064	0.00080	0.00070	0.07398	0.00743	0.00263
118	600099.36	4134552.23	0.00059	0.00073	0.00064	0.06507	0.00656	0.00232
119	600099.73	4134581.75	0.00079	0.00099	0.00086	0.12391	0.01187	0.00427
120	600092.44	4134590.13	0.00082	0.00102	0.00088	0.14784	0.0137	0.00498
121	600087.15	4134596.51	0.00085	0.00104	0.00091	0.1697	0.01521	0.00556
122	600081.14	4134602.89	0.00088	0.00107	0.00092	0.19602	0.01672	0.00617
123	600076.40	4134608.90	0.00091	0.00110	0.00095	0.22372	0.01796	0.00669
124	600070.57	4134615.65	0.00094	0.00113	0.00098	0.26083	0.01892	0.00716
125	600086.42	4134568.63	0.00064	0.00078	0.00067	0.09115	0.00879	0.00316
126	600079.86	4134575.37	0.00066	0.00079	0.00068	0.10599	0.00994	0.00359
127	600074.94	4134581.38	0.00068	0.00081	0.00070	0.1229	0.01117	0.00407
128	600069.66	4134588.31	0.00071	0.00083	0.00072	0.14731	0.01276	0.00469
129	600047.06	4134585.76	0.00062	0.00070	0.00059	0.11357	0.00901	0.00334
130	600054.53	4134592.87	0.00068	0.00078	0.00067	0.16367	0.01261	0.00472
131	600059.81	4134597.79	0.00074	0.00085	0.00073	0.19173	0.01474	0.00553
132	600034.12	4134604.53	0.00068	0.00076	0.00065	0.24956	0.01229	0.00499
133	600041.04	4134611.09	0.00075	0.00085	0.00073	0.30833	0.0154	0.00626
134	600047.42	4134616.74	0.00082	0.00095	0.00081	0.33510	0.01721	0.00695
135	600005.69	4134578.47	0.00048	0.00051	0.00043	0.01869	0.00196	0.00065
136	600000.77	4134584.12	0.00049	0.00052	0.00044	0.01913	0.00199	0.00065
137	599996.39	4134589.04	0.00050	0.00053	0.00045	0.01956	0.00202	0.00066
138	599991.47	4134585.03	0.00047	0.00050	0.00042	0.01521	0.00166	0.00053
139	599984.91	4134580.47	0.00045	0.00047	0.00039	0.0117	0.00134	0.00042
140	599974.89	4134570.09	0.00040	0.00041	0.00034	0.00787	0.00095	0.00028
141	599979.45	4134564.25	0.00039	0.00040	0.00034	0.00757	0.00092	0.00027
142	599983.82	4134558.97	0.00038	0.00039	0.00033	0.00737	0.0009	0.00027
143	599988.74	4134553.68	0.00037	0.00039	0.00033	0.00726	0.00089	0.00026
144	599993.30	4134548.22	0.00037	0.00038	0.00032	0.00712	0.00087	0.00026
145	599998.03	4134542.93	0.00036	0.00037	0.00032	0.00704	0.00086	0.00025
146	600008.60	4134547.49	0.00039	0.00041	0.00034	0.00933	0.0011	0.00034
147	600015.71	4134553.14	0.00041	0.00044	0.00037	0.0124	0.00141	0.00045
148	600024.46	4134560.06	0.00045	0.00049	0.00041	0.01904	0.00203	0.00067
149	600018.45	4134565.35	0.00046	0.00049	0.00042	0.01862	0.00198	0.00065
150	600012.98	4134570.27	0.00047	0.00050	0.00042	0.01825	0.00194	0.00064
151	600046.21	4134734.73	0.00297	0.00445	0.00394	0.07029	0.00773	0.0021
152	600050.86	4134738.84	0.00330	0.00505	0.00448	0.08358	0.00742	0.00187
153	600056.05	4134743.31	0.00372	0.00582	0.00518	0.05711	0.00718	0.00163
154	600036.56	4134746.71	0.00307	0.00454	0.00401	0.05508	0.00664	0.00166
155	600041.21	4134750.82	0.00340	0.00512	0.00453	0.0511	0.0065	0.0015
156	600046.39	4134754.93	0.00379	0.00583	0.00517	0.04753	0.00644	0.00135
157	600028.16	4134755.29	0.00307	0.00449	0.00396	0.04729	0.00599	0.00143
158	600033.34	4134759.40	0.00341	0.00507	0.00448	0.04456	0.00595	0.0013
159	600037.99	4134763.15	0.00374	0.00567	0.00502	0.0423	0.00595	0.00119
160	600016.36	4134769.41	0.00311	0.00449	0.00396	0.03808	0.00519	0.00112
161	600020.47	4134773.52	0.00339	0.00495	0.00437	0.03849	0.0052	0.00104
162	600024.58	4134777.28	0.00367	0.00545	0.00482	0.03523	0.00525	0.00097
163	600007.78	4134780.32	0.00314	0.00449	0.00395	0.03298	0.00472	0.00095
164	600012.96	4134784.25	0.00342	0.00498	0.00440	0.03207	0.0048	0.00089

Receptor No.	UTM-X	UTM-Y	Construction Total PM2.5 Concentrations (Fugitive + Exhaust) 2024	2025	2026	2027	2028	2029
165	600017.61	4134787.83	0.00370	0.00548	0.00485	0.03135	0.0049	0.00083
166	599988.83	4134780.50	0.00259	0.00357	0.00313	0.03122	0.00425	0.00094
167	599994.01	4134784.97	0.00283	0.00395	0.00347	0.03031	0.0043	0.00089
168	599999.38	4134788.90	0.00308	0.00437	0.00385	0.02964	0.00437	0.00084
169	600002.95	4134792.65	0.00328	0.00473	0.00417	0.02893	0.00442	0.00079
170	600007.24	4134796.59	0.00352	0.00516	0.00456	0.02834	0.00451	0.00075
171	599929.93	4134819.56	0.00046	0.00048	0.00040	0.01112	0.00129	0.0004
172	599935.99	4134824.79	0.00049	0.00051	0.00043	0.01398	0.00157	0.00049
173	599942.04	4134830.02	0.00052	0.00055	0.00046	0.01813	0.00196	0.00063
174	599948.09	4134835.26	0.00056	0.00059	0.00050	0.02433	0.00251	0.00083
175	599924.70	4134825.61	0.00047	0.00049	0.00041	0.01158	0.00134	0.00041
176	599942.86	4134841.31	0.00057	0.00061	0.00051	0.02488	0.00258	0.00086
177	599919.47	4134831.66	0.00047	0.00050	0.00042	0.01201	0.00138	0.00043
178	599937.62	4134847.36	0.00058	0.00062	0.00052	0.02504	0.00262	0.00087
179	599914.24	4134837.71	0.00048	0.00051	0.00043	0.01239	0.00143	0.00044
180	599932.39	4134853.41	0.00059	0.00063	0.00053	0.02487	0.00262	0.00087
181	599909.00	4134843.77	0.00049	0.00052	0.00044	0.01272	0.00146	0.00045
182	599927.16	4134859.46	0.00059	0.00064	0.00054	0.02445	0.0026	0.00086
183	599903.77	4134849.82	0.00050	0.00053	0.00044	0.01297	0.00149	0.00046
184	599909.82	4134855.05	0.00053	0.00056	0.00048	0.01587	0.00179	0.00057
185	599915.87	4134860.28	0.00056	0.00061	0.00051	0.01949	0.00214	0.00069
186	599921.92	4134865.51	0.00060	0.00065	0.00055	0.02384	0.00256	0.00084
187	599939.29	4134810.61	0.00045	0.00047	0.00039	0.01069	0.00124	0.00038
188	599945.34	4134815.84	0.00048	0.00050	0.00042	0.01344	0.00151	0.00047
189	599951.40	4134821.08	0.00051	0.00054	0.00045	0.01752	0.00189	0.00061
190	599957.45	4134826.31	0.00055	0.00058	0.00049	0.02388	0.00243	0.00081
191	599965.46	4134580.35	0.00041	0.00042	0.00035	0.00835	0.001	0.0003
192	599971.51	4134585.59	0.00044	0.00045	0.00038	0.01028	0.0012	0.00037
193	599977.56	4134590.82	0.00046	0.00049	0.00041	0.01305	0.00146	0.00046
194	599983.61	4134596.05	0.00050	0.00052	0.00044	0.01723	0.00182	0.00059
195	599960.22	4134586.41	0.00042	0.00043	0.00036	0.00875	0.00104	0.00031
196	599978.38	4134602.10	0.00051	0.00053	0.00045	0.01829	0.00191	0.00062
197	599954.99	4134592.46	0.00043	0.00044	0.00037	0.0092	0.00109	0.00033
198	599973.15	4134608.15	0.00052	0.00055	0.00046	0.01956	0.00202	0.00066
199	599949.76	4134598.51	0.00043	0.00045	0.00038	0.00968	0.00114	0.00034
200	599967.91	4134614.21	0.00053	0.00056	0.00047	0.02101	0.00215	0.00071
201	599944.53	4134604.56	0.00044	0.00046	0.00039	0.01018	0.00119	0.00036
202	599962.68	4134620.26	0.00054	0.00057	0.00048	0.0225	0.00229	0.00076
203	599973.06	4134660.31	0.00077	0.00086	0.00073	0.08119	0.00684	0.00246
204	599979.11	4134665.54	0.00083	0.00094	0.00081	0.0923	0.0077	0.00278
205	599985.16	4134670.77	0.00090	0.00104	0.00089	0.10095	0.00841	0.00303
206	599991.21	4134676.00	0.00098	0.00115	0.00099	0.10757	0.00898	0.00323
207	599967.83	4134666.36	0.00078	0.00088	0.00075	0.07021	0.00632	0.00224
208	599985.98	4134682.06	0.00100	0.00118	0.00101	0.09152	0.00817	0.00289
209	599962.59	4134672.41	0.00079	0.00090	0.00077	0.06163	0.00581	0.00203
210	599980.75	4134688.11	0.00101	0.00120	0.00104	0.07902	0.0074	0.00258
211	599957.36	4134678.46	0.00081	0.00092	0.00078	0.05477	0.00534	0.00184
212	599975.52	4134694.16	0.00103	0.00123	0.00106	0.06908	0.00671	0.0023
213	599952.13	4134684.51	0.00082	0.00093	0.00080	0.04917	0.00492	0.00168
214	599970.28	4134700.21	0.00105	0.00125	0.00108	0.06103	0.0061	0.00206
215	599946.90	4134690.56	0.00083	0.00095	0.00082	0.0445	0.00455	0.00153
216	599952.95	4134695.80	0.00090	0.00105	0.00090	0.04836	0.00493	0.00166
217	599959.00	4134701.03	0.00097	0.00115	0.00099	0.05165	0.00527	0.00177
218	599965.05	4134706.26	0.00106	0.00128	0.00110	0.05442	0.00557	0.00186
219	599872.67	4134679.48	0.00052	0.00056	0.00047	0.01216	0.00143	0.00043
220	599877.66	4134673.23	0.00051	0.00055	0.00046	0.01213	0.00142	0.00043
221	599883.81	4134666.06	0.00050	0.00053	0.00045	0.01209	0.00141	0.00043
222	599888.81	4134659.81	0.00049	0.00052	0.00044	0.01193	0.0014	0.00043
223	599878.92	4134684.47	0.00055	0.00060	0.00050	0.01408	0.00163	0.0005
224	599895.06	4134664.81	0.00053	0.00056	0.00047	0.01424	0.00163	0.00051
225	599885.17	4134689.47	0.00058	0.00064	0.00054	0.01622	0.00185	0.00058
226	599901.31	4134669.80	0.00056	0.00060	0.00051	0.01701	0.00191	0.00061
227	599891.42	4134694.46	0.00062	0.00069	0.00059	0.01854	0.00209	0.00066
228	599907.55	4134674.80	0.00060	0.00065	0.00055	0.02022	0.00223	0.00072
229	599897.66	4134699.46	0.00067	0.00074	0.00063	0.02097	0.00234	0.00074
230	599903.91	4134704.46	0.00071	0.00081	0.00069	0.02344	0.0026	0.00083
231	599908.91	4134698.21	0.00070	0.00079	0.00067	0.02463	0.0027	0.00087
232	599958.68	4134719.91	0.00114	0.00139	0.00121	0.04592	0.00488	0.00157
233	599953.53	4134726.04	0.00115	0.00142	0.00123	0.04167	0.00451	0.00143
234	599948.38	4134732.16	0.00117	0.00145	0.00125	0.03802	0.00419	0.0013
235	599943.24	4134738.29	0.00119	0.00147	0.00127	0.03484	0.0039	0.00119
236	599952.55	4134714.77	0.00104	0.00126	0.00109	0.04407	0.00486	0.00152
237	599937.11	4134733.14	0.00109	0.00133	0.00115	0.0338	0.00376	0.00116
238	599946.43	4134709.62	0.00096	0.00114	0.00098	0.04181	0.00441	0.00145
239	599930.99	4134727.99	0.00100	0.00120	0.00104	0.03246	0.00359	0.00112
240	599940.30	4134704.47	0.00089	0.00103	0.00089	0.03915	0.00413	0.00136
241	599924.86	4134722.85	0.00092	0.00109	0.00094	0.03082	0.0034	0.00107
242	599918.74	4134717.70	0.00085	0.00100	0.00086	0.02893	0.00318	0.00101
243	599917.76	4134706.43	0.00078	0.00090	0.00077	0.02857	0.00311	0.001
244	599912.61	4134712.56	0.00079	0.00091	0.00078	0.0268	0.00295	0.00094
245	600025.55	4134714.54	0.00188	0.00256	0.00225	0.10376	0.00949	0.00314
246	600031.61	4134719.78	0.00211	0.00296	0.00261	0.09779	0.00917	0.00294
247	600020.32	4134720.60	0.00191	0.00261	0.00229	0.08778	0.00854	0.00275
248	600015.09	4134726.65	0.00194	0.00265	0.00233	0.07531	0.00768	0.00241

Receptor No.	UTM-X	UTM-Y	Construction Total PM2.5 Concentrations (Fugitive + Exhaust) 2024	2025	2026	2027	2028	2029
249	600009.86	4134732.70	0.00197	0.00269	0.00236	0.06541	0.00694	0.00212
250	600004.62	4134738.75	0.00200	0.00273	0.00239	0.05743	0.0063	0.00187
251	599999.39	4134744.80	0.00203	0.00276	0.00242	0.0509	0.00576	0.00166
252	600005.44	4134750.03	0.00228	0.00315	0.00276	0.04853	0.00567	0.00155
253	599995.83	4134698.42	0.00124	0.00153	0.00133	0.08952	0.00835	0.00288
254	600000.50	4134692.82	0.00122	0.00150	0.00130	0.10251	0.00913	0.0032
255	599990.60	4134704.47	0.00126	0.00157	0.00136	0.07788	0.00756	0.00256
256	599985.37	4134710.52	0.00128	0.00160	0.00139	0.06835	0.00684	0.00228
257	599980.13	4134716.57	0.00130	0.00163	0.00142	0.06046	0.00622	0.00204
258	599974.90	4134722.62	0.00132	0.00166	0.00144	0.05386	0.00567	0.00182
259	599969.67	4134728.67	0.00134	0.00169	0.00147	0.0483	0.00519	0.00164
260	600005.67	4134687.59	0.00121	0.00148	0.00128	0.11894	0.00996	0.00355
261	600008.62	4134715.46	0.00163	0.00214	0.00187	0.08492	0.00826	0.00273
262	600013.29	4134709.87	0.00160	0.00210	0.00184	0.09744	0.00907	0.00306
263	600003.39	4134721.52	0.00165	0.00218	0.00191	0.07363	0.00744	0.0024
264	599998.15	4134727.57	0.00168	0.00222	0.00194	0.0644	0.00673	0.00212
265	599992.92	4134733.62	0.00170	0.00225	0.00197	0.05679	0.00611	0.00188
266	599987.69	4134739.67	0.00173	0.00228	0.00200	0.05048	0.00558	0.00167
267	599983.61	4134744.80	0.00175	0.00232	0.00202	0.04606	0.0052	0.00153
268	600018.46	4134704.64	0.00158	0.00208	0.00182	0.11284	0.00994	0.00341
269	599968.20	4134749.68	0.00161	0.00208	0.00182	0.03915	0.0045	0.00131
270	599962.48	4134745.17	0.00147	0.00188	0.00164	0.0391	0.00443	0.00132
271	599974.39	4134754.75	0.00178	0.00234	0.00205	0.03873	0.00455	0.00128
272	599957.11	4134740.14	0.00134	0.00170	0.00147	0.03899	0.00436	0.00132
273	599965.82	4134780.72	0.00209	0.00277	0.00242	0.02854	0.00374	0.00089
274	599971.91	4134785.92	0.00231	0.00310	0.00271	0.02788	0.00378	0.00085
275	599960.63	4134786.81	0.00210	0.00277	0.00242	0.02643	0.00354	0.00082
276	599966.72	4134792.00	0.00231	0.00309	0.00270	0.02589	0.00359	0.00078
277	599955.44	4134792.89	0.00210	0.00277	0.00241	0.02459	0.00336	0.00075
278	599961.52	4134798.08	0.00230	0.00307	0.00269	0.02415	0.00342	0.00072
279	599950.24	4134798.98	0.00210	0.00276	0.00241	0.02295	0.0032	0.0007
280	599956.33	4134804.17	0.00229	0.00306	0.00267	0.02259	0.00326	0.00067
281	599945.05	4134805.06	0.00210	0.00274	0.00239	0.0215	0.00305	0.00064
282	599951.14	4134810.25	0.00228	0.00303	0.00265	0.02121	0.00312	0.00062
283	599939.86	4134811.15	0.00209	0.00273	0.00238	0.02021	0.00292	0.0006
284	599945.94	4134816.34	0.00227	0.00300	0.00262	0.01997	0.00299	0.00057
285	599937.24	4134791.35	0.00178	0.00228	0.00198	0.02298	0.00304	0.00072
286	599932.13	4134797.51	0.00178	0.00228	0.00199	0.0215	0.0029	0.00067
287	599931.08	4134786.25	0.00162	0.00206	0.00179	0.02312	0.00298	0.00074
288	599925.97	4134792.41	0.00163	0.00207	0.00180	0.02162	0.00284	0.00069
289	599924.92	4134781.14	0.00148	0.00187	0.00162	0.02315	0.00292	0.00075
290	599919.81	4134787.30	0.00149	0.00188	0.00163	0.02165	0.00278	0.0007
291	599918.76	4134776.04	0.00136	0.00169	0.00146	0.02304	0.00285	0.00076
292	599913.65	4134782.20	0.00137	0.00170	0.00148	0.02157	0.00271	0.00071
293	599915.63	4134738.52	0.00098	0.00118	0.00101	0.02678	0.00304	0.00092
294	599921.72	4134743.71	0.00106	0.00129	0.00112	0.02783	0.00318	0.00096
295	599910.44	4134744.60	0.00099	0.00119	0.00103	0.02503	0.00288	0.00086
296	599916.52	4134749.79	0.00108	0.00131	0.00113	0.02592	0.00301	0.00089
297	599905.25	4134750.69	0.00100	0.00121	0.00104	0.02345	0.00273	0.0008
298	599911.33	4134755.88	0.00109	0.00133	0.00115	0.02422	0.00285	0.00082
299	599900.05	4134756.77	0.00102	0.00123	0.00106	0.02202	0.0026	0.00075
300	599906.14	4134761.96	0.00110	0.00135	0.00116	0.02268	0.0027	0.00077
301	599894.86	4134762.86	0.00103	0.00124	0.00107	0.02073	0.00248	0.0007
302	599900.94	4134768.05	0.00112	0.00136	0.00117	0.02129	0.00257	0.00072
303	599889.67	4134768.94	0.00104	0.00125	0.00108	0.01955	0.00237	0.00066
304	599895.75	4134774.13	0.00113	0.00137	0.00119	0.02003	0.00245	0.00067
305	599900.43	4134733.48	0.00086	0.00100	0.00086	0.02319	0.00264	0.00081
306	599895.33	4134739.64	0.00087	0.00102	0.00088	0.02188	0.00252	0.00076
307	599894.27	4134728.38	0.00079	0.00092	0.00079	0.02171	0.00247	0.00076
308	599889.17	4134734.54	0.00080	0.00094	0.00080	0.02059	0.00237	0.00072
309	599888.11	4134723.27	0.00074	0.00085	0.00073	0.02011	0.00229	0.0007
310	599883.01	4134729.43	0.00075	0.00086	0.00074	0.01918	0.00221	0.00067
311	599881.95	4134718.17	0.00069	0.00078	0.00067	0.01844	0.00211	0.00065
312	599876.85	4134724.33	0.00070	0.00079	0.00068	0.01769	0.00204	0.00062
313	600075.68	4134717.21	0.00335	0.00542	0.00484	0.10235	0.00946	0.00264
314	600078.95	4134713.37	0.00330	0.00538	0.00481	0.11616	0.00985	0.00283
315	600067.98	4134711.45	0.00282	0.00435	0.00388	0.12502	0.01022	0.00317
316	600071.45	4134707.21	0.00277	0.00429	0.00382	0.14362	0.01068	0.00341
317	600085.29	4134706.64	0.00324	0.00534	0.00478	0.15752	0.01058	0.00326
		Max	0.2848	0.05398	0.04045	0.33510	0.02312	0.00716

E. Julian St & Tripp Ave Residential, San Jose - Construction Impacts
Maximum DPM Cancer Risk Calculations From Construction - Mitigated
Off-Site Residential Receptors, 1st Floor (1.5 meter receptor heights)
Residential Exposure (30-year)

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 $(mg/kg\text{-}day)^{-1}$
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 ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)

10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

TAC	CPF
DPM	1.10E+00

	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - 16	16 - 70
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

				Maximum - Exposure Information			Maximum	
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	Annual DPM Conc. (ug/m3)	DPM Cancer Risk (per million)	Hazard Index	Total PM2.5
3rd Trimester	2024	0.25	-0.25 - 0*	10	0.0026	0.04	0.0005	0.244
1	2025	1	1	10	0.0136	2.23	0.0027	0.036
2	2026	1	2	10	0.0078	1.28	0.0016	0.028
3	2027	1	3	3	0.0343	0.89	**0.0069**	**0.281**
4	2028	1	4	3	0.0110	0.28	0.0022	0.024
5	2029	1	5	3	0.0003	0.01	0.0001	0.007
6	2030	1	6	3	0.0000	0.00		
7	2031	1	7	3	0.0000	0.00		
8	2032	1	8	3	0.0000	0.00		
9	2033	1	9	3	0.0000	0.00		
10	2034	1	10	3	0.0000	0.00		
11	2035	1	11	3	0.0000	0.00		
12	2036	1	12	3	0.0000	0.00		
13	2037	1	13	3	0.0000	0.00		
14	2038	1	14	3	0.0000	0.00		
15	2039	1	15	3	0.0000	0.00		
16	2040	1	16	3	0.0000	0.00		
17	2041	1	17	1	0.0000	0.000		
18	2042	1	18	1	0.0000	0.000		
19	2043	1	19	1	0.0000	0.000		
20	2044	1	20	1	0.0000	0.000		
21	2045	1	21	1	0.0000	0.000		
22	2046	1	22	1	0.0000	0.000		
23	2047	1	23	1	0.0000	0.000		
24	2048	1	24	1	0.0000	0.000		
25	2049	1	25	1	0.0000	0.000		
26	2050	1	26	1	0.0000	0.000		
27	2051	1	27	1	0.0000	0.000		
28	2052	1	28	1	0.0000	0.000		
29	2053	1	29	1	0.0000	0.000		
30	2054	1	30	1	0.0000	0.000		
Total Increased Cancer Risk						**4.72**		

* Third trimester of pregnancy

Total PM2.5 Concentrations - Mitigated
Project Construction
Off-Site Residential Receptors - 1.5 meter residential receptor heights

Receptor			Construction					
			Total PM2.5 Concentrations (Fugitive + Exhaust)					
No.	UTM-X	UTM-Y	2024	2025	2026	2027	2028	2029
1	600233.94	4134745.69	0.09893	0.02522	0.01941	0.05763	0.01725	0.00029
2	600225.12	4134737.12	0.11692	0.03559	0.02797	0.07901	0.02389	0.00034
3	600223.10	4134750.23	0.06764	0.02803	0.02215	0.06443	0.01937	0.0003
4	600213.02	4134763.09	0.03732	0.02516	0.02084	0.06065	0.01823	0.00028
5	600203.69	4134773.68	0.02513	0.02342	0.02010	0.05828	0.01754	0.00027
6	600197.89	4134784.77	0.01820	0.02007	0.01761	0.05153	0.01548	0.00025
7	600188.31	4134795.10	0.01384	0.01885	0.01685	0.04908	0.01476	0.00023
8	600179.24	4134805.44	0.01093	0.01744	0.01578	0.04584	0.01379	0.00022
9	600167.39	4134815.02	0.00893	0.01741	0.01583	0.04537	0.01368	0.00021
10	600161.59	4134826.11	0.00736	0.01434	0.01311	0.03815	0.01145	0.0002
11	600151.00	4134836.45	0.00620	0.01321	0.01207	0.03503	0.01049	0.00019
12	600142.43	4134846.54	0.00533	0.01146	0.01045	0.03062	0.00912	0.00018
13	600130.08	4134854.85	0.00472	0.01122	0.01013	0.02939	0.00874	0.00018
14	600124.03	4134867.71	0.00403	0.00796	0.00728	0.0223	0.00652	0.00017
15	600114.95	4134877.29	0.00359	0.00681	0.00628	0.01977	0.00573	0.00017
16	600106.13	4134887.88	0.00319	0.00576	0.00537	0.01746	0.00501	0.00017
17	600133.10	4134911.58	0.00248	0.00299	0.00276	0.00986	0.00275	0.00012
18	600143.69	4134902.50	0.00272	0.00316	0.00289	0.01024	0.00287	0.00012
19	600153.77	4134892.92	0.00300	0.00338	0.00307	0.01075	0.00302	0.00012
20	600165.12	4134884.60	0.00330	0.00350	0.00315	0.01099	0.0031	0.00012
21	600170.67	4134872.50	0.00381	0.00406	0.00365	0.01249	0.00355	0.00013
22	600179.99	4134861.41	0.00439	0.00453	0.00404	0.01369	0.0039	0.00014
23	600191.59	4134853.09	0.00492	0.00469	0.00414	0.01403	0.004	0.00014
24	600200.41	4134842.25	0.00575	0.00524	0.00460	0.01544	0.00442	0.00015
25	600205.71	4134829.64	0.00703	0.00634	0.00555	0.0183	0.00528	0.00016
26	600215.79	4134820.57	0.00817	0.00672	0.00580	0.01913	0.00552	0.00017
27	600224.36	4134808.97	0.01006	0.00760	0.00647	0.02122	0.00613	0.00018
28	600235.46	4134800.40	0.01145	0.00777	0.00649	0.02141	0.00618	0.00018
29	600241.76	4134788.30	0.01468	0.00903	0.00744	0.02428	0.00703	0.00019
30	600251.09	4134777.96	0.01720	0.00960	0.00781	0.02547	0.00739	0.0002
31	600260.16	4134767.63	0.01956	0.01012	0.00819	0.02664	0.00774	0.00021
32	600271.76	4134754.26	0.02353	0.01079	0.00865	0.02806	0.00817	0.00022
33	600277.56	4134745.19	0.02967	0.01172	0.00921	0.02974	0.00868	0.00022
34	600279.32	4134697.79	0.24367	0.03164	0.01899	0.05795	0.01722	0.00035
35	600300.50	4134716.95	0.05710	0.01560	0.01016	0.03277	0.00959	0.00025
36	600289.91	4134728.55	0.04858	0.01399	0.00997	0.03209	0.00939	0.00024
37	600311.09	4134723.51	0.03074	0.01130	0.00802	0.02641	0.00767	0.00022
38	600320.92	4134734.85	0.01580	0.00782	0.00608	0.02051	0.00589	0.00019
39	600330.00	4134742.67	0.01085	0.00611	0.00493	0.01699	0.00484	0.00017
40	600339.07	4134749.98	0.00786	0.00492	0.00406	0.01431	0.00404	0.00016
41	600309.07	4134791.58	0.00497	0.00364	0.00311	0.01137	0.00315	0.00014
42	600297.47	4134796.87	0.00511	0.00378	0.00323	0.01175	0.00326	0.00014
43	600289.41	4134811.24	0.00442	0.00332	0.00284	0.0105	0.00289	0.00014
44	600280.84	4134817.54	0.00447	0.00331	0.00281	0.0104	0.00286	0.00013
45	600268.47	4134825.61	0.00480	0.00342	0.00287	0.01054	0.00291	0.00013
46	600264.45	4134839.73	0.00399	0.00285	0.00239	0.00895	0.00245	0.00012
47	600252.60	4134851.58	0.00387	0.00271	0.00225	0.00848	0.00231	0.00012
48	600242.52	4134857.38	0.00392	0.00274	0.00228	0.00849	0.00233	0.00012
49	600231.93	4134870.74	0.00353	0.00251	0.00210	0.00784	0.00215	0.00011
50	600228.15	4134884.60	0.00305	0.00218	0.00183	0.00694	0.00189	0.0001
51	600210.25	4134886.87	0.00317	0.00241	0.00205	0.00763	0.0021	0.0001
52	600210.75	4134906.28	0.00257	0.00193	0.00164	0.00626	0.0017	0.00009
53	600202.68	4134917.38	0.00234	0.00180	0.00154	0.00593	0.00161	0.00009
54	600195.12	4134925.70	0.00219	0.00173	0.00149	0.00575	0.00156	0.00009
55	600180.50	4134934.77	0.00203	0.00172	0.00150	0.00577	0.00156	0.00009
56	600171.93	4134945.61	0.00186	0.00162	0.00143	0.00551	0.00149	0.00008
57	600111.21	4134672.51	0.00161	0.00258	0.00251	0.26927	0.01661	0.00651
58	600125.42	4134664.49	0.00168	0.00284	0.00278	0.18145	0.01644	0.00607
59	600129.07	4134654.28	0.00148	0.00243	0.00237	0.16014	0.01658	0.0062
60	600137.81	4134642.62	0.00135	0.00221	0.00217	0.13069	0.01534	0.00569
61	600146.20	4134583.94	0.00065	0.00092	0.00090	0.07512	0.0098	0.00378
62	600077.31	4134545.67	0.00030	0.00034	0.00032	0.03045	0.00396	0.00154
63	599978.17	4134828.51	0.00195	0.00269	0.00257	0.0165	0.00353	0.00051
64	599994.94	4134812.83	0.00212	0.00296	0.00283	0.01914	0.004	0.00061
65	600235.60	4134520.44	0.00082	0.00134	0.00133	0.03171	0.00488	0.00153
66	600243.52	4134511.34	0.00081	0.00131	0.00131	0.02918	0.00454	0.0014
67	600226.89	4134468.19	0.00046	0.00064	0.00063	0.01899	0.00289	0.00097
68	600234.41	4134457.51	0.00045	0.00062	0.00061	0.01722	0.00265	0.00087
69	600184.54	4134431.78	0.00026	0.00032	0.00030	0.00999	0.00154	0.00053
70	600177.61	4134442.46	0.00027	0.00032	0.00031	0.01098	0.00168	0.00058
71	600168.90	4134448.20	0.00026	0.00032	0.00030	0.01116	0.0017	0.00059
72	600161.38	4134460.47	0.00027	0.00032	0.00031	0.01262	0.00189	0.00067
73	600152.48	4134467.40	0.00026	0.00032	0.00031	0.01308	0.00195	0.0007
74	600148.32	4134481.85	0.00028	0.00034	0.00033	0.01598	0.00233	0.00085
75	600139.22	4134423.86	0.00019	0.00022	0.00021	0.00604	0.00096	0.00032
76	600131.60	4134434.94	0.00019	0.00022	0.00021	0.00649	0.00102	0.00035
77	600122.39	4134443.26	0.00019	0.00022	0.00021	0.00662	0.00104	0.00035
78	600113.09	4134451.96	0.00019	0.00022	0.00021	0.00676	0.00105	0.00036
79	600105.77	4134464.63	0.00019	0.00022	0.00021	0.00755	0.00116	0.0004
80	600098.64	4134472.94	0.00020	0.00023	0.00021	0.00791	0.00121	0.00042

Receptor No.	UTM-X	UTM-Y	Construction Total PM2.5 Concentrations (Fugitive + Exhaust) 2024	2025	2026	2027	2028	2029
81	600058.73	4134918.13	0.00232	0.00388	0.00371	0.01344	0.0037	0.00018
82	600067.81	4134926.71	0.00218	0.00333	0.00317	0.01167	0.0032	0.00016
83	600077.13	4134934.52	0.00205	0.00291	0.00276	0.01025	0.0028	0.00014
84	600086.97	4134942.59	0.00190	0.00253	0.00239	0.00897	0.00245	0.00013
85	600098.31	4134952.17	0.00174	0.00217	0.00202	0.0077	0.00209	0.00011
86	600102.60	4134942.08	0.00189	0.00240	0.00224	0.00838	0.00229	0.00012
87	600111.42	4134949.14	0.00177	0.00212	0.00197	0.00744	0.00203	0.00011
88	600109.40	4134933.51	0.00203	0.00258	0.00241	0.00887	0.00244	0.00012
89	600118.48	4134940.82	0.00190	0.00225	0.00208	0.00779	0.00213	0.00011
90	600109.40	4134962.25	0.00159	0.00186	0.00172	0.00664	0.0018	0.0001
91	600117.97	4134970.57	0.00149	0.00166	0.00152	0.00592	0.0016	0.00009
92	600122.26	4134959.73	0.00162	0.00181	0.00166	0.00637	0.00173	0.0001
93	600128.56	4134966.03	0.00155	0.00165	0.00151	0.00584	0.00158	0.00009
94	600127.81	4134979.65	0.00140	0.00147	0.00134	0.00525	0.00141	0.00008
95	600133.35	4134983.93	0.00136	0.00138	0.00125	0.00495	0.00133	0.00008
96	600139.66	4134992.00	0.00130	0.00126	0.00113	0.00452	0.00121	0.00008
97	600146.97	4134984.69	0.00137	0.00129	0.00116	0.00461	0.00123	0.00008
98	600142.18	4134974.35	0.00147	0.00144	0.00130	0.0051	0.00137	0.00008
99	600147.47	4134967.55	0.00155	0.00149	0.00134	0.00524	0.00141	0.00008
100	600155.79	4134976.12	0.00146	0.00134	0.00119	0.0047	0.00126	0.00008
101	600177.00	4134605.99	0.00116	0.00211	0.00210	0.07154	0.01008	0.00344
102	600153.12	4134633.51	0.00137	0.00241	0.00237	0.10208	0.01324	0.00469
103	600160.96	4134624.76	0.00129	0.00231	0.00228	0.09008	0.0121	0.00424
104	600168.43	4134615.10	0.00120	0.00216	0.00214	0.08028	0.01105	0.00384
105	600145.47	4134626.58	0.00114	0.00182	0.00179	0.10801	0.01358	0.00506
106	600168.07	4134599.25	0.00096	0.00159	0.00157	0.07409	0.01009	0.00364
107	600158.59	4134591.77	0.00080	0.00122	0.00120	0.0751	0.00999	0.00375
108	600150.94	4134600.88	0.00083	0.00126	0.00124	0.08542	0.01113	0.00422
109	600142.73	4134611.09	0.00089	0.00132	0.00130	0.09924	0.01257	0.00481
110	600135.99	4134618.75	0.00093	0.00137	0.00134	0.11251	0.01382	0.00533
111	600135.81	4134571.73	0.00053	0.00071	0.00068	0.06765	0.00877	0.00343
112	600130.16	4134578.10	0.00054	0.00072	0.00069	0.07529	0.00962	0.00379
113	600124.51	4134585.03	0.00056	0.00074	0.00071	0.08481	0.01064	0.00422
114	600117.95	4134593.05	0.00059	0.00076	0.00073	0.09787	0.01198	0.00478
115	600118.13	4134566.99	0.00045	0.00056	0.00054	0.06507	0.00829	0.00329
116	600113.39	4134562.25	0.00042	0.00051	0.00049	0.05955	0.0076	0.00301
117	600105.92	4134556.42	0.00038	0.00046	0.00044	0.05188	0.00665	0.00263
118	600099.36	4134552.23	0.00035	0.00042	0.00040	0.04561	0.00586	0.00232
119	600099.73	4134581.75	0.00047	0.00056	0.00054	0.06815	0.0106	0.00427
120	600092.44	4134590.13	0.00049	0.00058	0.00055	0.1063	0.01224	0.00498
121	600087.15	4134596.51	0.00051	0.00060	0.00057	0.12341	0.01359	0.00556
122	600081.14	4134602.89	0.00052	0.00061	0.00058	0.14492	0.01496	0.00617
123	600076.40	4134608.90	0.00054	0.00063	0.00059	0.16861	0.0161	0.00669
124	600070.57	4134615.65	0.00056	0.00064	0.00061	0.20242	0.01704	0.00716
125	600086.42	4134568.63	0.00038	0.00044	0.00042	0.06473	0.00785	0.00316
126	600079.86	4134575.37	0.00039	0.00045	0.00042	0.07595	0.00888	0.00359
127	600074.94	4134581.38	0.00041	0.00046	0.00043	0.08899	0.00998	0.00407
128	600069.66	4134588.31	0.00042	0.00047	0.00045	0.10834	0.01142	0.00469
129	600047.06	4134585.76	0.00037	0.00040	0.00037	0.08609	0.0081	0.00334
130	600054.53	4134592.87	0.00041	0.00045	0.00042	0.1249	0.01133	0.00472
131	600059.81	4134597.79	0.00044	0.00049	0.00046	0.14632	0.01324	0.00553
132	600034.12	4134604.53	0.00041	0.00043	0.00041	0.21075	0.0113	0.00499
133	600041.04	4134611.09	0.00045	0.00049	0.00046	0.25962	0.01414	0.00626
134	600047.42	4134616.74	0.00049	0.00054	0.00051	0.28077	0.01577	0.00695
135	600005.69	4134578.47	0.00029	0.00029	0.00027	0.01327	0.00178	0.00065
136	600000.77	4134584.12	0.00029	0.00030	0.00027	0.01364	0.0018	0.00065
137	599996.39	4134589.04	0.00030	0.00030	0.00028	0.014	0.00183	0.00066
138	599991.47	4134585.03	0.00028	0.00028	0.00026	0.01074	0.00151	0.00053
139	599984.91	4134580.47	0.00026	0.00026	0.00024	0.00819	0.00122	0.00042
140	599974.89	4134570.09	0.00024	0.00023	0.00021	0.00548	0.00087	0.00028
141	599979.45	4134564.25	0.00023	0.00023	0.00021	0.00527	0.00084	0.00027
142	599983.82	4134558.97	0.00023	0.00022	0.00021	0.00513	0.00082	0.00027
143	599988.74	4134553.68	0.00022	0.00022	0.00020	0.00505	0.00081	0.00026
144	599993.30	4134548.22	0.00022	0.00022	0.00020	0.00495	0.0008	0.00026
145	599998.03	4134542.93	0.00021	0.00021	0.00020	0.00489	0.00079	0.00025
146	600008.60	4134547.49	0.00023	0.00023	0.00021	0.00648	0.001	0.00034
147	600015.71	4134553.14	0.00025	0.00025	0.00023	0.00864	0.00128	0.00045
148	600024.46	4134560.06	0.00027	0.00028	0.00026	0.01341	0.00183	0.00067
149	600018.45	4134565.35	0.00027	0.00028	0.00026	0.01313	0.00179	0.00065
150	600012.98	4134570.27	0.00026	0.00028	0.00026	0.01289	0.00175	0.00064
151	600046.21	4134734.73	0.00179	0.00261	0.00251	0.05279	0.00721	0.0021
152	600050.86	4134738.84	0.00200	0.00297	0.00286	0.04799	0.00698	0.00187
153	600056.05	4134743.31	0.00227	0.00345	0.00331	0.04349	0.00682	0.00163
154	600036.56	4134746.71	0.00186	0.00267	0.00256	0.04115	0.00624	0.00166
155	600041.21	4134750.82	0.00207	0.00302	0.00289	0.03851	0.00616	0.0015
156	600046.39	4134754.93	0.00232	0.00345	0.00331	0.03623	0.00616	0.00135
157	600028.16	4134755.29	0.00186	0.00264	0.00252	0.03533	0.00566	0.00143
158	600033.34	4134759.40	0.00208	0.00299	0.00286	0.03364	0.00566	0.0013
159	600037.99	4134763.15	0.00229	0.00335	0.00321	0.0323	0.00571	0.00119
160	600016.36	4134769.41	0.00190	0.00264	0.00252	0.02864	0.00494	0.00112
161	600020.47	4134773.52	0.00207	0.00292	0.00279	0.02774	0.00499	0.00104
162	600024.58	4134777.28	0.00225	0.00322	0.00308	0.02708	0.00507	0.00097
163	600007.78	4134780.32	0.00192	0.00264	0.00252	0.025	0.00453	0.00095
164	600012.96	4134784.25	0.00210	0.00294	0.00281	0.0246	0.00464	0.00089

Receptor			Construction					
			Total PM2.5 Concentrations (Fugitive + Exhaust)					
No.	UTM-X	UTM-Y	2024	2025	2026	2027	2028	2029
165	600017.61	4134787.83	0.00227	0.00324	0.00310	0.02434	0.00477	0.00083
166	599988.83	4134780.50	0.00157	0.00209	0.00199	0.02329	0.00404	0.00094
167	599994.01	4134784.97	0.00173	0.00232	0.00221	0.02284	0.00411	0.00089
168	599999.38	4134788.90	0.00189	0.00257	0.00245	0.02257	0.00421	0.00084
169	600002.95	4134792.65	0.00202	0.00279	0.00266	0.02226	0.00428	0.00079
170	600007.24	4134796.59	0.00217	0.00305	0.00291	0.02206	0.0044	0.00075
171	599929.93	4134619.56	0.00027	0.00027	0.00025	0.00779	0.00117	0.0004
172	599935.99	4134624.79	0.00029	0.00029	0.00027	0.00981	0.00143	0.00049
173	599942.04	4134630.02	0.00031	0.00031	0.00029	0.01279	0.00178	0.00063
174	599948.09	4134635.26	0.00033	0.00034	0.00031	0.01733	0.00227	0.00083
175	599924.70	4134625.61	0.00028	0.00028	0.00026	0.0081	0.00122	0.00041
176	599942.86	4134641.31	0.00034	0.00035	0.00032	0.01767	0.00233	0.00086
177	599919.47	4134631.66	0.00028	0.00028	0.00026	0.0084	0.00126	0.00043
178	599937.62	4134647.36	0.00034	0.00035	0.00033	0.01774	0.00237	0.00087
179	599914.24	4134637.71	0.00029	0.00029	0.00027	0.00866	0.0013	0.00044
180	599932.39	4134653.41	0.00035	0.00036	0.00033	0.01757	0.00237	0.00087
181	599909.00	4134643.77	0.00029	0.00029	0.00027	0.00889	0.00133	0.00045
182	599927.16	4134659.46	0.00035	0.00037	0.00034	0.01723	0.00235	0.00086
183	599903.77	4134649.82	0.00030	0.00030	0.00028	0.00906	0.00136	0.00046
184	599909.82	4134655.05	0.00032	0.00032	0.00030	0.01111	0.00162	0.00057
185	599915.87	4134660.28	0.00034	0.00035	0.00032	0.01367	0.00194	0.00069
186	599921.92	4134665.51	0.00036	0.00037	0.00035	0.01677	0.00232	0.00084
187	599939.29	4134610.61	0.00027	0.00027	0.00024	0.00749	0.00113	0.00038
188	599945.34	4134615.84	0.00028	0.00029	0.00026	0.00945	0.00137	0.00047
189	599951.40	4134621.08	0.00030	0.00031	0.00028	0.0124	0.00171	0.00061
190	599957.45	4134626.31	0.00032	0.00033	0.00031	0.01711	0.00219	0.00081
191	599965.46	4134580.35	0.00024	0.00024	0.00022	0.00583	0.00092	0.0003
192	599971.51	4134585.59	0.00026	0.00026	0.00024	0.00719	0.00109	0.00037
193	599977.56	4134590.82	0.00028	0.00028	0.00025	0.00918	0.00133	0.00046
194	599983.61	4134596.05	0.00029	0.00030	0.00027	0.01227	0.00166	0.00059
195	599960.22	4134586.41	0.00025	0.00025	0.00023	0.00611	0.00095	0.00031
196	599978.38	4134602.10	0.00030	0.00030	0.00028	0.01307	0.00173	0.00062
197	599954.99	4134592.46	0.00025	0.00025	0.00023	0.00643	0.00099	0.00033
198	599973.15	4134608.15	0.00031	0.00031	0.00029	0.01402	0.00183	0.00066
199	599949.76	4134598.51	0.00026	0.00026	0.00023	0.00678	0.00104	0.00034
200	599967.91	4134614.21	0.00031	0.00032	0.00029	0.01508	0.00195	0.00071
201	599944.53	4134604.56	0.00026	0.00026	0.00024	0.00713	0.00108	0.00036
202	599962.68	4134620.26	0.00032	0.00032	0.00030	0.01615	0.00207	0.00076
203	599973.06	4134660.31	0.00046	0.00049	0.00046	0.06087	0.00616	0.00246
204	599979.11	4134665.54	0.00050	0.00054	0.00050	0.06937	0.00694	0.00278
205	599985.16	4134670.77	0.00054	0.00059	0.00056	0.07594	0.00757	0.00303
206	599991.21	4134676.00	0.00059	0.00066	0.00062	0.08093	0.00809	0.00323
207	599967.83	4134666.36	0.00047	0.00050	0.00047	0.05161	0.00568	0.00224
208	599985.98	4134682.06	0.00060	0.00067	0.00063	0.06754	0.00735	0.00289
209	599962.59	4134672.41	0.00047	0.00051	0.00048	0.0447	0.00522	0.00203
210	599980.75	4134688.11	0.00061	0.00069	0.00065	0.05754	0.00666	0.00258
211	599957.36	4134678.46	0.00048	0.00052	0.00049	0.03936	0.0048	0.00184
212	599975.52	4134694.16	0.00061	0.00070	0.00066	0.04984	0.00604	0.0023
213	599952.13	4134684.51	0.00049	0.00053	0.00050	0.03511	0.00443	0.00168
214	599970.28	4134700.21	0.00062	0.00072	0.00068	0.04376	0.0055	0.00206
215	599946.90	4134690.56	0.00050	0.00054	0.00051	0.03165	0.0041	0.00153
216	599952.95	4134695.80	0.00054	0.00060	0.00056	0.03443	0.00445	0.00166
217	599959.00	4134701.03	0.00058	0.00066	0.00062	0.03683	0.00476	0.00177
218	599965.05	4134706.26	0.00063	0.00073	0.00069	0.03886	0.00503	0.00186
219	599872.67	4134679.48	0.00031	0.00032	0.00029	0.0085	0.0013	0.00043
220	599877.66	4134673.23	0.00030	0.00031	0.00029	0.00847	0.0013	0.00043
221	599883.81	4134666.06	0.00030	0.00030	0.00028	0.00845	0.00129	0.00043
222	599888.81	4134659.81	0.00029	0.00030	0.00028	0.00833	0.00127	0.00043
223	599878.92	4134684.47	0.00033	0.00034	0.00031	0.00985	0.00149	0.0005
224	599895.06	4134664.81	0.00031	0.00032	0.00030	0.00995	0.00149	0.00051
225	599885.17	4134689.47	0.00035	0.00036	0.00034	0.01136	0.00169	0.00058
226	599901.31	4134669.80	0.00033	0.00034	0.00032	0.0119	0.00174	0.00061
227	599891.42	4134694.46	0.00037	0.00039	0.00036	0.013	0.0019	0.00066
228	599907.55	4134674.80	0.00036	0.00037	0.00034	0.01418	0.00202	0.00072
229	599897.66	4134699.46	0.00040	0.00042	0.00039	0.01473	0.00213	0.00074
230	599903.91	4134704.46	0.00042	0.00046	0.00043	0.01649	0.00236	0.00083
231	599908.91	4134698.21	0.00042	0.00045	0.00042	0.01732	0.00245	0.00087
232	599958.68	4134719.91	0.00068	0.00080	0.00075	0.0327	0.00443	0.00157
233	599953.53	4134726.04	0.00069	0.00081	0.00077	0.02966	0.0041	0.00143
234	599948.38	4134732.16	0.00070	0.00083	0.00078	0.02706	0.00382	0.0013
235	599943.24	4134738.29	0.00071	0.00084	0.00080	0.02481	0.00357	0.00119
236	599952.55	4134714.77	0.00062	0.00072	0.00068	0.03132	0.00423	0.00152
237	599937.11	4134733.14	0.00065	0.00076	0.00072	0.02401	0.00343	0.00116
238	599946.43	4134709.62	0.00057	0.00065	0.00061	0.02967	0.004	0.00145
239	599930.99	4134727.99	0.00059	0.00069	0.00065	0.02301	0.00327	0.00112
240	599940.30	4134704.47	0.00053	0.00059	0.00055	0.02774	0.00374	0.00136
241	599924.86	4134722.85	0.00055	0.00062	0.00059	0.02181	0.00309	0.00107
242	599918.74	4134717.70	0.00051	0.00057	0.00053	0.02043	0.00289	0.00101
243	599917.76	4134706.43	0.00047	0.00051	0.00048	0.02015	0.00282	0.001
244	599912.61	4134712.56	0.00047	0.00052	0.00049	0.0189	0.00268	0.00094
245	600025.55	4134714.54	0.00113	0.00148	0.00142	0.07772	0.00865	0.00314
246	600031.61	4134719.78	0.00127	0.00172	0.00165	0.07339	0.00839	0.00294
247	600020.32	4134720.60	0.00115	0.00151	0.00144	0.06488	0.00779	0.00275
248	600015.09	4134726.65	0.00116	0.00154	0.00147	0.05519	0.00702	0.00241

Receptor			Construction					
			Total PM2.5 Concentrations (Fugitive + Exhaust)					
No.	UTM-X	UTM-Y	2024	2025	2026	2027	2028	2029
249	600009.86	4134732.70	0.00118	0.00156	0.00149	0.0477	0.00636	0.00212
250	600004.62	4134738.75	0.00120	0.00158	0.00151	0.04178	0.0058	0.00187
251	599999.39	4134744.80	0.00122	0.00160	0.00153	0.03701	0.00532	0.00166
252	600005.44	4134750.03	0.00137	0.00183	0.00175	0.0355	0.00527	0.00155
253	599995.83	4134698.42	0.00074	0.00088	0.00083	0.06553	0.00754	0.00288
254	600000.50	4134692.82	0.00073	0.00086	0.00081	0.07597	0.00824	0.0032
255	599990.60	4134704.47	0.00075	0.00090	0.00085	0.05648	0.00683	0.00256
256	599985.37	4134710.52	0.00076	0.00092	0.00087	0.04926	0.00619	0.00228
257	599980.13	4134716.57	0.00077	0.00094	0.00089	0.0434	0.00564	0.00204
258	599974.90	4134722.62	0.00079	0.00095	0.00090	0.03857	0.00515	0.00182
259	599969.67	4134728.67	0.00080	0.00097	0.00092	0.03454	0.00473	0.00164
260	600005.67	4134687.59	0.00072	0.00085	0.00080	0.0897	0.009	0.00355
261	600008.62	4134715.46	0.00097	0.00123	0.00118	0.06218	0.0075	0.00273
262	600013.29	4134709.87	0.00096	0.00121	0.00115	0.07204	0.00823	0.00306
263	600003.39	4134721.52	0.00099	0.00126	0.00120	0.05354	0.00677	0.0024
264	599998.15	4134727.57	0.00100	0.00128	0.00122	0.04663	0.00614	0.00212
265	599992.92	4134733.62	0.00102	0.00130	0.00124	0.04103	0.00559	0.00188
266	599987.69	4134739.67	0.00103	0.00132	0.00126	0.03644	0.00512	0.00167
267	599983.61	4134744.80	0.00105	0.00134	0.00127	0.03325	0.00478	0.00153
268	600018.46	4134704.64	0.00095	0.00120	0.00114	0.08462	0.00901	0.00341
269	599968.20	4134749.68	0.00096	0.00120	0.00114	0.02817	0.00415	0.00131
270	599962.48	4134745.17	0.00088	0.00108	0.00103	0.02803	0.00407	0.00132
271	599974.39	4134754.75	0.00107	0.00135	0.00129	0.02801	0.00421	0.00128
272	599957.11	4134740.14	0.00080	0.00097	0.00092	0.02786	0.00399	0.00132
273	599965.82	4134780.72	0.00126	0.00161	0.00153	0.02101	0.00352	0.00089
274	599971.91	4134785.92	0.00140	0.00181	0.00172	0.0207	0.00359	0.00085
275	599960.63	4134786.81	0.00127	0.00161	0.00153	0.01953	0.00334	0.00082
276	599966.72	4134792.00	0.00140	0.00180	0.00171	0.01931	0.00342	0.00078
277	599955.44	4134792.89	0.00127	0.00161	0.00153	0.01823	0.00318	0.00075
278	599961.52	4134798.08	0.00140	0.00179	0.00170	0.01808	0.00326	0.00072
279	599950.24	4134798.98	0.00127	0.00160	0.00152	0.01709	0.00304	0.0007
280	599956.33	4134804.17	0.00140	0.00178	0.00169	0.01698	0.00312	0.00067
281	599945.05	4134805.06	0.00127	0.00160	0.00152	0.01607	0.00291	0.00064
282	599951.14	4134810.25	0.00139	0.00177	0.00168	0.01601	0.00299	0.00062
283	599939.86	4134811.15	0.00127	0.00159	0.00151	0.01516	0.00279	0.0006
284	599945.94	4134816.34	0.00139	0.00175	0.00166	0.01513	0.00288	0.00057
285	599937.24	4134791.35	0.00107	0.00132	0.00125	0.01687	0.00287	0.00072
286	599932.13	4134797.51	0.00108	0.00132	0.00125	0.01584	0.00274	0.00067
287	599931.08	4134786.25	0.00097	0.00119	0.00113	0.01687	0.0028	0.00074
288	599925.97	4134792.41	0.00098	0.00120	0.00113	0.01583	0.00267	0.00069
289	599924.92	4134781.14	0.00089	0.00108	0.00102	0.01679	0.00273	0.00075
290	599919.81	4134787.30	0.00090	0.00108	0.00102	0.01576	0.0026	0.0007
291	599918.76	4134776.04	0.00081	0.00097	0.00092	0.01664	0.00265	0.00076
292	599913.65	4134782.20	0.00082	0.00098	0.00093	0.01562	0.00253	0.00071
293	599915.63	4134738.52	0.00058	0.00067	0.00063	0.019	0.00278	0.00092
294	599921.72	4134743.71	0.00063	0.00074	0.00070	0.01979	0.00292	0.00096
295	599910.44	4134744.60	0.00059	0.00068	0.00064	0.01778	0.00264	0.00086
296	599916.52	4134749.79	0.00064	0.00075	0.00071	0.01846	0.00276	0.00089
297	599905.25	4134750.69	0.00060	0.00069	0.00065	0.01669	0.00251	0.0008
298	599911.33	4134755.88	0.00065	0.00076	0.00072	0.01728	0.00262	0.00082
299	599900.05	4134756.77	0.00060	0.00070	0.00066	0.0157	0.00239	0.00075
300	599906.14	4134761.96	0.00065	0.00077	0.00073	0.01622	0.00249	0.00077
301	599894.86	4134762.86	0.00061	0.00071	0.00067	0.01481	0.00229	0.0007
302	599900.94	4134768.05	0.00066	0.00078	0.00073	0.01526	0.00238	0.00072
303	599889.67	4134768.94	0.00062	0.00072	0.00068	0.014	0.00219	0.00066
304	599895.75	4134774.13	0.00067	0.00079	0.00074	0.01439	0.00228	0.00067
305	599900.43	4134733.48	0.00051	0.00057	0.00054	0.0164	0.00241	0.00081
306	599895.33	4134739.64	0.00051	0.00058	0.00055	0.0156	0.00231	0.00076
307	599894.27	4134728.38	0.00047	0.00052	0.00049	0.01533	0.00226	0.00076
308	599889.17	4134734.54	0.00048	0.00053	0.00050	0.01456	0.00217	0.00072
309	599888.11	4134723.27	0.00044	0.00048	0.00045	0.01418	0.00209	0.0007
310	599883.01	4134729.43	0.00044	0.00049	0.00046	0.01354	0.00202	0.00067
311	599881.95	4134718.17	0.00041	0.00044	0.00042	0.01298	0.00193	0.00065
312	599876.85	4134724.33	0.00041	0.00045	0.00042	0.01247	0.00187	0.00062
313	600075.68	4134717.21	0.00203	0.00321	0.00310	0.08077	0.00887	0.00264
314	600078.95	4134713.37	0.00200	0.00318	0.00307	0.09319	0.00924	0.00283
315	600067.98	4134711.45	0.00170	0.00255	0.00246	0.09927	0.00949	0.00317
316	600071.45	4134707.21	0.00167	0.00251	0.00243	0.1162	0.00993	0.00341
317	600085.29	4134706.64	0.00197	0.00316	0.00306	0.13184	0.00998	0.00326
		Max	0.24367	0.03559	0.02797	0.28077	0.02389	0.00716

E. Julian St & Tripp Ave Residential, San Jose - Construction Risks at School Receptors
Maximum DPM Cancer Risk and PM2.5 Calculations For Construction Emissions Unmitigated
Impacts at Roketship Discovery Prep School - 1st Floor (1 m receptor heights)

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

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)

Inhalation Dose = C_{air} x SCAF x 8-Hr BR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
SCAF = School Child Adjustment Factor (unitless) for source operation and exposures different than 8 hours/day
= (24/SHR) x (7days/SDay) x (SCHR/8 hrs)
SHR = Hours/day of emission source operation
SDay = Number of days per week of source operation
SCHR = School operation hours while emission source in operation
8-Hr BR = Eight-hour breathing rate (L/kg body weight-per 8 hrs)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant	Child
Age -->	**0 - <2**	**2 - <16**
Parameter		
ASF =	10	3
DPM CPF =	1.10E+00	1.10E+00
8-Hr BR* =	1200	520
SCHR =	8	8
SHR =	12	12
SDay =	5	5
A =	1	1
EF =	250	250
AT =	70	70
SCAF =	2.80	2.80

* 95th percentile 8-hr breathing rates for moderate intensity activities

Construction Cancer Risk by Year - Maximum School Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Child - Exposure Information			Child Cancer Risk (per million)	Maximum	
			DPM Conc (ug/m3)		Age* Sensitivity Factor		Hazard Index	Total PM2.5
			Year	Annual				
1	1	5 - 6	2024	0.00276	3	0.13	0.0006	0.007
2	1	6 - 7	2025	0.00735	3	0.35	0.0015	0.015
3	1	7 - 8	2026	0.00808	3	0.38	0.0016	0.013
4	1	8 - 9	2027	0.02076	3	0.98	**0.0042**	**0.030**
5	1	9 - 10	2028	0.00566	3	0.27	0.0011	0.009
6	1	1 0 - 11	2029	0.00042	3	0.02	0.0001	0.001
Total Increased Cancer Risk						**2.12**		

E. Julian St & Tripp Ave Residential, San Jose - Construction Risks at School Receptors
Maximum DPM Cancer Risk and PM2.5 Calculations For Construction Emissions Mitigated
Impacts at Roketship Discovery Prep School - 1st Floor (1 m receptor heights)

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

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)

Inhalation Dose = C_{air} x SCAF x 8-Hr BR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
SCAF = School Child Adjustment Factor (unitless) for source operation and exposures different than 8 hours/day
= (24/SHR) x (7days/SDay) x (SCHR/8 hrs)
SHR = Hours/day of emission source operation
SDay = Number of days per week of source operation
SCHR = School operation hours while emission source in operation
8-Hr BR = Eight-hour breathing rate (L/kg body weight-per 8 hrs)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant	Child
Age -->	**0 - <2**	**2 - <16**
Parameter		
ASF =	10	3
DPM CPF =	1.10E+00	1.10E+00
8-Hr BR* =	1200	520
SCHR =	8	8
SHR =	12	12
SDay =	5	5
A =	1	1
EF =	250	250
AT =	70	70
SCAF =	2.80	2.80

* 95th percentile 8-hr breathing rates for moderate intensity activities

Construction Cancer Risk by Year - Maximum School Impact Receptor Location

Exposure Year	Exposure Duration (years)	Age	Child - Exposure Information: DPM Conc (ug/m3) Year	DPM Conc (ug/m3) Annual	Age* Sensitivity Factor	Child Cancer Risk (per million)	Maximum Hazard Index	Maximum Total PM2.5
1	1	5 - 6	2024	0.00017	3	0.01	0.0000	0.004
2	1	6 - 7	2025	0.00185	3	0.09	0.0004	0.009
3	1	7 - 8	2026	0.00361	3	0.17	0.0007	0.009
4	1	8 - 9	2027	0.01706	3	0.80	**0.0034**	**0.033**
5	1	9 - 10	2028	0.00582	3	0.27	0.0012	0.009
6	1	1 0 - 11	2029	0.00140	3	0.07	0.0003	0.002
Total Increased Cancer Risk						**1.41**		

E. Julian St & Tripp Ave Residential, San Jose - Construction Risks at School Receptors
Maximum DPM Cancer Risk and PM2.5 Calculations For Construction Emissions - Unmitigated
Impacts at San Jose Head Start - 1 meter receptor heights

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

Where: CPF = Cancer potency factor $(mg/kg\text{-}day)^{-1}$
ASF = Age sensitivity factor for specified age group
ED = Exposure duration (years)
AT = Averaging time for lifetime cancer risk (years)

Inhalation Dose = C_{air} x SCAF x 8-Hr BR x A x (EF/365) x 10^{-6}

Where: C_{air} = concentration in air ($\mu g/m^3$)
SCAF = School Child Adjustment Factor (unitless) for source operation and exposures different than 8 hours/day
= (24/SHR) x (7days/SDay) x (SCHR/8 hrs)
SHR = Hours/day of emission source operation
SDay = Number of days per week of source operation
SCHR = School operation hours while emission source in operation
8-Hr BR = Eight-hour breathing rate (L/kg body weight-per 8 hrs)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

	Infant	Child
Age -->	**0 - <2**	**2 - <16**
Parameter		
ASF =	10	3
DPM CPF =	1.10E+00	1.10E+00
8-Hr BR* =	1200	520
SCHR =	12	12
SHR =	12	12
SDay =	5	5
A =	1	1
EF =	250	250
AT =	70	70
SCAF =	4.20	4.20

* 95th percentile 8-hr breathing rates for moderate intensity activities

Construction Cancer Risk by Year - Head Start Center Receptor

Exposure Year	Exposure Duration (years)	Age	Child - Exposure Information: DPM Conc (ug/m3) Year	DPM Conc (ug/m3) Annual	Age* Sensitivity Factor	Child Cancer Risk (per million)	Maximum Hazard Index	Maximum Total PM2.5
1	1	0 - 1	2024	0.00008	10	0.04	0.0000	0.0002
2	1	1 - 2	2025	0.00012	10	0.07	0.0000	0.0002
3	1	2 - 3	2026	0.00011	3	0.01	0.0000	0.0002
4	1	3 - 4	2027	0.00074	3	0.05	**0.0001**	**0.0007**
5	1	4 - 5	2028	0.00018	3	0.01	0.0000	0.0002
Total Increased Cancer Risk						**0.18**		

* Children assumed to be from 3 months of age to 5 years old during construction activities

Attachment 3: Cumulative Health Risk Modeling Information and Calculations

U.S. 101 Traffic Emissions and Modeling Information

File Name:	Santa Clara (SF) - 2025 - Annual-Hwy 101 Trucks.EF
CT-EMFAC2021 Version:	1.0.2.0
Run Date:	6/19/2023 2:16
Area:	Santa Clara (SF)
Analysis Year:	2025
Season:	Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.033	0.416	0.572
Truck 2	0.034	0.909	0.045
Non-Truck	0.933	0.007	0.917

Road Type:	Freeway	
Silt Loading Factor:	CARB	0.015 g/m2
Precipitation Correction:	CARB	P = 63 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	50 mph	55 mph	60 mph	65 mph
PM2.5	0.009257	0.006206	0.004294	0.003116	0.002393	0.00194	0.001663	0.001515	0.00147	0.001515	0.001645	0.001854	0.002149
TOG	0.14624	0.095374	0.063638	0.045393	0.034523	0.027609	0.023085	0.020161	0.018395	0.017564	0.017572	0.018558	0.020531
Diesel PM	0.00187	0.001627	0.00125	0.00098	0.000815	0.000711	0.000653	0.000641	0.000673	0.000748	0.000868	0.001016	0.00118
DEOG	0.010942	0.00946	0.006301	0.004529	0.003684	0.003087	0.00261	0.002238	0.001964	0.001784	0.001697	0.001752	0.001823

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

Pollutant Name	Emission Factor
TOG	0.991186

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

Pollutant Name	Emission Factor
PM2.5	0.002187

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

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.004493	0.005018	0.00553	0.006029	0.006271	0.00634	0.006285	0.005756	0.0047	0.003673	0.003052	0.002759	0.002467

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

Pollutant Name	Emission Factor
PM2.5	0.008696

END

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions
U.S. Hignway 101
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2025

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
DPM_NB101	Northbound US-101	SE-NW	4	732	0.45	20.6	67.7	3.4	60	81,900
DPM_SB101	Southbound US-101	NW-SE	4	732	0.45	20.6	67.7	3.4	60	81,900
										163,800

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	60			
Emissions per Vehicle (g/VMT)	0.00102			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and DPM Emissions - DPM_NB101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.93%	3222	4.14E-04	9	6.41%	5246	6.73E-04	17	5.55%	4546	5.83E-04
2	2.62%	2148	2.76E-04	10	7.36%	6032	7.74E-04	18	3.16%	2585	3.32E-04
3	2.85%	2335	3.00E-04	11	6.34%	5191	6.66E-04	19	2.36%	1931	2.48E-04
4	3.31%	2708	3.48E-04	12	6.92%	5667	7.27E-04	20	0.87%	709	9.10E-05
5	2.17%	1774	2.28E-04	13	6.29%	5153	6.61E-04	21	3.09%	2530	3.25E-04
6	3.36%	2755	3.54E-04	14	6.23%	5106	6.55E-04	22	4.12%	3370	4.33E-04
7	6.00%	4911	6.30E-04	15	5.15%	4219	5.42E-04	23	2.58%	2110	2.71E-04
8	4.58%	3752	4.82E-04	16	3.84%	3145	4.04E-04	24	0.92%	755	9.70E-05
								Total		81,900	

2025 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SB101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.93%	3222	4.14E-04	9	6.41%	5246	6.73E-04	17	5.55%	4546	5.83E-04
2	2.62%	2148	2.76E-04	10	7.36%	6032	7.74E-04	18	3.16%	2585	3.32E-04
3	2.85%	2335	3.00E-04	11	6.34%	5191	6.66E-04	19	2.36%	1931	2.48E-04
4	3.31%	2708	3.48E-04	12	6.92%	5667	7.27E-04	20	0.87%	709	9.10E-05
5	2.17%	1774	2.28E-04	13	6.29%	5153	6.61E-04	21	3.09%	2530	3.25E-04
6	3.36%	2755	3.54E-04	14	6.23%	5106	6.55E-04	22	4.12%	3370	4.33E-04
7	6.00%	4911	6.30E-04	15	5.15%	4219	5.42E-04	23	2.58%	2110	2.71E-04
8	4.58%	3752	4.82E-04	16	3.84%	3145	4.04E-04	24	0.92%	755	9.70E-05
								Total		81,900	

Analysis Year = ***2025***

Vehicle Type	2020 Caltrans Vehicles (veh/day)	2025 Vehicles (veh/day)
Truck 1 (MDT)	5,070	5,324
Truck 2 (HDT)	5,273	5,536
Non-Truck	145,657	152,940
All	**156,000**	**163,800**

Increase From 2020	1.05
Vehicles/Direction	**81,900**
Avg Vehicles/Hour/Direction	3,413

Traffic Data Year = ***2020***

2020 Caltrans Truck AADT (% trucks) and 2020 Caltrans Traffic Volumes	AADT Total	Total Truck	Trucks by Axle 2	3	4	5
Highway 101, A San Jose, Jct Rte 130 East	156,000	10,343	5,070	1,303	295	3,675
			49.02%	12.60%	2.85%	35.53%
Percent of Total Vehicles		6.63%	3.25%	0.84%	0.19%	2.36%

Traffic Increase per Year (%) = *1.00%*

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions
U.S. Hignway 101
PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions
Year = 2025

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
PM25_NB101	Northbound US-101	SE-NW	4	732	0.45	20.6	68	1.3	60	81,900
PM25_SB101	Southbound US-101	NW-SE	4	732	0.45	20.6	68	1.3	60	81,900
									Total	163,800

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	60			
Emissions per Vehicle (g/VMT)	0.00185			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NB101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	942	2.21E-04	9	7.11%	5826	1.36E-03	17	7.39%	6052	1.42E-03
2	0.42%	345	8.09E-05	10	4.39%	3593	8.41E-04	18	8.18%	6697	1.57E-03
3	0.41%	334	7.83E-05	11	4.66%	3818	8.94E-04	19	5.69%	4664	1.09E-03
4	0.26%	213	4.99E-05	12	5.89%	4821	1.13E-03	20	4.28%	3501	8.20E-04
5	0.50%	407	9.53E-05	13	6.15%	5037	1.18E-03	21	3.25%	2665	6.24E-04
6	0.91%	743	1.74E-04	14	6.04%	4946	1.16E-03	22	3.30%	2700	6.32E-04
7	3.79%	3102	7.27E-04	15	7.01%	5742	1.34E-03	23	2.46%	2016	4.72E-04
8	7.77%	6361	1.49E-03	16	7.14%	5848	1.37E-03	24	1.86%	1527	3.58E-04
								Total		81,900	

2025 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SB101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	942	2.21E-04	9	7.11%	5826	1.36E-03	17	7.39%	6052	1.42E-03
2	0.42%	345	8.09E-05	10	4.39%	3593	8.41E-04	18	8.18%	6697	1.57E-03
3	0.41%	334	7.83E-05	11	4.66%	3818	8.94E-04	19	5.69%	4664	1.09E-03
4	0.26%	213	4.99E-05	12	5.89%	4821	1.13E-03	20	4.28%	3501	8.20E-04
5	0.50%	407	9.53E-05	13	6.15%	5037	1.18E-03	21	3.25%	2665	6.24E-04
6	0.91%	743	1.74E-04	14	6.04%	4946	1.16E-03	22	3.30%	2700	6.32E-04
7	3.79%	3102	7.27E-04	15	7.01%	5742	1.34E-03	23	2.46%	2016	4.72E-04
8	7.77%	6361	1.49E-03	16	7.14%	5848	1.37E-03	24	1.86%	1527	3.58E-04
								Total		81,900	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions
U.S. Hignway 101
TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions
Year = 2025

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
TEXH_NB101	Northbound US-101	SE-NW	4	732	0.45	20.6	68	1.3	60	81,900
TEXH_SB101	Southbound US-101	NW-SE	4	732	0.45	20.6	68	1.3	60	81,900
									Total	163,800

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	60			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.01856			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00175			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.01681			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NB101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	942	2.00E-03	9	7.11%	5826	1.24E-02	17	7.39%	6052	1.28E-02
2	0.42%	345	7.33E-04	10	4.39%	3593	7.63E-03	18	8.18%	6697	1.42E-02
3	0.41%	334	7.10E-04	11	4.66%	3818	8.11E-03	19	5.69%	4664	9.90E-03
4	0.26%	213	4.52E-04	12	5.89%	4821	1.02E-02	20	4.28%	3501	7.43E-03
5	0.50%	407	8.64E-04	13	6.15%	5037	1.07E-02	21	3.25%	2665	5.66E-03
6	0.91%	743	1.58E-03	14	6.04%	4946	1.05E-02	22	3.30%	2700	5.73E-03
7	3.79%	3102	6.59E-03	15	7.01%	5742	1.22E-02	23	2.46%	2016	4.28E-03
8	7.77%	6361	1.35E-02	16	7.14%	5848	1.24E-02	24	1.86%	1527	3.24E-03
								Total		81,900	

2025 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SB101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	942	2.00E-03	9	7.11%	5826	1.24E-02	17	7.39%	6052	1.28E-02
2	0.42%	345	7.33E-04	10	4.39%	3593	7.63E-03	18	8.18%	6697	1.42E-02
3	0.41%	334	7.10E-04	11	4.66%	3818	8.11E-03	19	5.69%	4664	9.90E-03
4	0.26%	213	4.52E-04	12	5.89%	4821	1.02E-02	20	4.28%	3501	7.43E-03
5	0.50%	407	8.64E-04	13	6.15%	5037	1.07E-02	21	3.25%	2665	5.66E-03
6	0.91%	743	1.58E-03	14	6.04%	4946	1.05E-02	22	3.30%	2700	5.73E-03
7	3.79%	3102	6.59E-03	15	7.01%	5742	1.22E-02	23	2.46%	2016	4.28E-03
8	7.77%	6361	1.35E-02	16	7.14%	5848	1.24E-02	24	1.86%	1527	3.24E-03
								Total		81,900	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

U.S. Hignway 101

TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions

Year = 2025

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
TEVAP_NB101	Northbound US-101	SE-NW	4	732	0.45	20.6	68	1.3	60	81,900
TEVAP_SB101	Southbound US-101	NW-SE	4	732	0.45	20.6	68	1.3	60	81,900
									Total	163,800

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	60			
Emissions per Vehicle per Hour (g/hour)	0.99119			
Emissions per Vehicle per Mile (g/VMT)	0.01652			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NB101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	942	1.96E-03	9	7.11%	5826	1.22E-02	17	7.39%	6052	1.26E-02
2	0.42%	345	7.21E-04	10	4.39%	3593	7.50E-03	18	8.18%	6697	1.40E-02
3	0.41%	334	6.98E-04	11	4.66%	3818	7.97E-03	19	5.69%	4664	9.73E-03
4	0.26%	213	4.44E-04	12	5.89%	4821	1.01E-02	20	4.28%	3501	7.31E-03
5	0.50%	407	8.49E-04	13	6.15%	5037	1.05E-02	21	3.25%	2665	5.56E-03
6	0.91%	743	1.55E-03	14	6.04%	4946	1.03E-02	22	3.30%	2700	5.63E-03
7	3.79%	3102	6.47E-03	15	7.01%	5742	1.20E-02	23	2.46%	2016	4.21E-03
8	7.77%	6361	1.33E-02	16	7.14%	5848	1.22E-02	24	1.86%	1527	3.19E-03
								Total		81,900	

2025 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SB101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	942	1.96E-03	9	7.11%	5826	1.22E-02	17	7.39%	6052	1.26E-02
2	0.42%	345	7.21E-04	10	4.39%	3593	7.50E-03	18	8.18%	6697	1.40E-02
3	0.41%	334	6.98E-04	11	4.66%	3818	7.97E-03	19	5.69%	4664	9.73E-03
4	0.26%	213	4.44E-04	12	5.89%	4821	1.01E-02	20	4.28%	3501	7.31E-03
5	0.50%	407	8.49E-04	13	6.15%	5037	1.05E-02	21	3.25%	2665	5.56E-03
6	0.91%	743	1.55E-03	14	6.04%	4946	1.03E-02	22	3.30%	2700	5.63E-03
7	3.79%	3102	6.47E-03	15	7.01%	5742	1.20E-02	23	2.46%	2016	4.21E-03
8	7.77%	6361	1.33E-02	16	7.14%	5848	1.22E-02	24	1.86%	1527	3.19E-03
								Total		81,900	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

U.S. Hignway 101

Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions

Year = 2025

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
FUG_NB101	Northbound US-101	SE-NW	4	732	0.45	20.6	68	1.3	60	81,900
FUG_SB101	Southbound US-101	NW-SE	4	732	0.45	20.6	68	1.3	60	81,900
									Total	163,800

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	60			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00219			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00276			
Road Dust - Emissions per Vehicle (g/VMT)	0.00870			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.01364			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NB101

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	942	1.62E-03	9	7.11%	5826	1.00E-02	17	7.39%	6052	1.04E-02
2	0.42%	345	5.95E-04	10	4.39%	3593	6.19E-03	18	8.18%	6697	1.15E-02
3	0.41%	334	5.76E-04	11	4.66%	3818	6.58E-03	19	5.69%	4664	8.04E-03
4	0.26%	213	3.67E-04	12	5.89%	4821	8.31E-03	20	4.28%	3501	6.03E-03
5	0.50%	407	7.01E-04	13	6.15%	5037	8.68E-03	21	3.25%	2665	4.59E-03
6	0.91%	743	1.28E-03	14	6.04%	4946	8.52E-03	22	3.30%	2700	4.65E-03
7	3.79%	3102	5.35E-03	15	7.01%	5742	9.90E-03	23	2.46%	2016	3.47E-03
8	7.77%	6361	1.10E-02	16	7.14%	5848	1.01E-02	24	1.86%	1527	2.63E-03
								Total		81,900	

2025 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SB101

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	942	1.62E-03	9	7.11%	5826	1.00E-02	17	7.39%	6052	1.04E-02
2	0.42%	345	5.95E-04	10	4.39%	3593	6.19E-03	18	8.18%	6697	1.15E-02
3	0.41%	334	5.76E-04	11	4.66%	3818	6.58E-03	19	5.69%	4664	8.04E-03
4	0.26%	213	3.67E-04	12	5.89%	4821	8.31E-03	20	4.28%	3501	6.03E-03
5	0.50%	407	7.01E-04	13	6.15%	5037	8.68E-03	21	3.25%	2665	4.59E-03
6	0.91%	743	1.28E-03	14	6.04%	4946	8.52E-03	22	3.30%	2700	4.65E-03
7	3.79%	3102	5.35E-03	15	7.01%	5742	9.90E-03	23	2.46%	2016	3.47E-03
8	7.77%	6361	1.10E-02	16	7.14%	5848	1.01E-02	24	1.86%	1527	2.63E-03
								Total		81,900	

E Julian Street Traffic Emissions and Modeling Information

File Name:	Santa Clara (SF) - 2025 - Annual-BAAQMD Trucks.EF
CT-EMFAC2021 Version:	1.0.2.0
Run Date:	6/19/2023 2:11
Area:	Santa Clara (SF)
Analysis Year:	2025
Season:	Annual

Vehicle Category	VMT Fraction Across Category	Diesel VMT Fraction Within Category	Gas VMT Fraction Within Category
Truck 1	0.016	0.416	0.572
Truck 2	0.019	0.909	0.045
Non-Truck	0.965	0.007	0.917

Road Type:	Major/Collector		
Silt Loading Factor:	CARB	0.032 g/m2	
Precipitation Correction:	CARB	P = 63 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	50 mph	55 mph	60 mph	65 mph
PM2.5	0.00866	0.005672	0.003862	0.002765	0.002095	0.001677	0.001421	0.001277	0.001219	0.001234	0.001317	0.001466	0.001688
TOG	0.13694	0.088617	0.05925	0.042133	0.031861	0.02537	0.021181	0.018522	0.016963	0.016287	0.016401	0.017402	0.019365
Diesel PM	0.001077	0.000937	0.000713	0.000555	0.000462	0.000404	0.000374	0.00037	0.000391	0.000437	0.000508	0.000596	0.00070
DEOG	0.006624	0.005666	0.00363	0.0025	0.002007	0.001677	0.001416	0.001215	0.00107	0.000976	0.000933	0.000965	0.001007

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

Pollutant Name	Emission Factor
TOG	0.998556

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

Pollutant Name	Emission Factor
PM2.5	0.002107

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

Pollutant Name	<= 5 mph	10 mph	15 mph	20 mph	25 mph	30 mph	35 mph	40 mph	45 mph	50 mph	55 mph	60 mph	65 mph
PM2.5	0.003503	0.004046	0.004582	0.00511	0.005391	0.005479	0.005497	0.005001	0.00396	0.002934	0.002292	0.001989	0.001686

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

Pollutant Name	Emission Factor
PM2.5	0.015309

END

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions
E. Julian Street
DPM Modeling - Roadway Links, Traffic Volumes, and DPM Emissions
Year = 2025

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
DPM_NBEJ	Northbound E Julian	SW-NE	2	761	0.47	13.3	43.7	3.4	30	6,750
DPM_SBEJ	Southbound E Julian	NE-SW	2	761	0.47	13.3	43.7	3.4	30	6,750
										13,500

Emission Factors - DPM

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.00040			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and DPM Emissions - DPM_NBEJ

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	3.93%	266	1.41E-05	9	6.41%	432	2.29E-05	17	5.55%	375	1.99E-05
2	2.62%	177	9.39E-06	10	7.36%	497	2.64E-05	18	3.16%	213	1.13E-05
3	2.85%	192	1.02E-05	11	6.34%	428	2.27E-05	19	2.36%	159	8.44E-06
4	3.31%	223	1.18E-05	12	6.92%	467	2.48E-05	20	0.87%	58	3.10E-06
5	2.17%	146	7.76E-06	13	6.29%	425	2.25E-05	21	3.09%	208	1.11E-05
6	3.36%	227	1.20E-05	14	6.23%	421	2.23E-05	22	4.12%	278	1.47E-05
7	6.00%	405	2.15E-05	15	5.15%	348	1.84E-05	23	2.58%	174	9.22E-06
8	4.58%	309	1.64E-05	16	3.84%	259	1.37E-05	24	0.92%	62	3.30E-06
								Total		6,750	

2025 Hourly Traffic Volumes Per Direction and DPM Emissions - DPM_SBEJ

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	3.93%	266	1.41E-05	9	6.41%	432	2.29E-05	17	5.55%	375	1.99E-05
2	2.62%	177	9.39E-06	10	7.36%	497	2.64E-05	18	3.16%	213	1.13E-05
3	2.85%	192	1.02E-05	11	6.34%	428	2.27E-05	19	2.36%	159	8.44E-06
4	3.31%	223	1.18E-05	12	6.92%	467	2.48E-05	20	0.87%	58	3.10E-06
5	2.17%	146	7.76E-06	13	6.29%	425	2.25E-05	21	3.09%	208	1.11E-05
6	3.36%	227	1.20E-05	14	6.23%	421	2.23E-05	22	4.12%	278	1.47E-05
7	6.00%	405	2.15E-05	15	5.15%	348	1.84E-05	23	2.58%	174	9.22E-06
8	4.58%	309	1.64E-05	16	3.84%	259	1.37E-05	24	0.92%	62	3.30E-06
								Total		6,750	

Analysis Year = ***2025***

Vehicle Type	2025 Vehicles (veh/day)
Truck 1 (MDT)	203
Truck 2 (HDT)	270
Non-Truck	13,028
All	**13,500**
Increase From 2025	1.00
Vehicles/Direction	**6,750**
Avg Vehicles/Hour/Direct	281

Traffic Data Year = ***2025***

Project Traffic Report	AADT Total	Total Truck
E Julian Street	13,500	473
Percent of Total Vehicles		3.5%

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

E. Julian Street

PM2.5 Modeling - Roadway Links, Traffic Volumes, and PM2.5 Emissions

Year = 2025

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
PM25_NBEJ	Northbound E Julian	SW-NE	2	761	0.47	13.3	44	1.3	30	6,750
PM25_SBEJ	Southbound E Julian	NE-SW	2	761	0.47	13.3	44	1.3	30	6,750
									Total	13,500

Emission Factors - PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle (g/VMT)	0.00168			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and PM2.5 Emissions - PM25_NBEJ

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	78	1.71E-05	9	7.11%	480	1.06E-04	17	7.39%	499	1.10E-04
2	0.42%	28	6.27E-06	10	4.39%	296	6.52E-05	18	8.18%	552	1.21E-04
3	0.41%	28	6.07E-06	11	4.66%	315	6.93E-05	19	5.69%	384	8.46E-05
4	0.26%	18	3.86E-06	12	5.89%	397	8.75E-05	20	4.28%	289	6.35E-05
5	0.50%	34	7.38E-06	13	6.15%	415	9.14E-05	21	3.25%	220	4.84E-05
6	0.91%	61	1.35E-05	14	6.04%	408	8.97E-05	22	3.30%	223	4.90E-05
7	3.79%	256	5.63E-05	15	7.01%	473	1.04E-04	23	2.46%	166	3.66E-05
8	7.77%	524	1.15E-04	16	7.14%	482	1.06E-04	24	1.86%	126	2.77E-05
								Total		6,750	

2025 Hourly Traffic Volumes Per Direction and PM2.5 Emissions - PM25_SBEJ

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	78	1.71E-05	9	7.11%	480	1.06E-04	17	7.39%	499	1.10E-04
2	0.42%	28	6.27E-06	10	4.39%	296	6.52E-05	18	8.18%	552	1.21E-04
3	0.41%	28	6.07E-06	11	4.66%	315	6.93E-05	19	5.69%	384	8.46E-05
4	0.26%	18	3.86E-06	12	5.89%	397	8.75E-05	20	4.28%	289	6.35E-05
5	0.50%	34	7.38E-06	13	6.15%	415	9.14E-05	21	3.25%	220	4.84E-05
6	0.91%	61	1.35E-05	14	6.04%	408	8.97E-05	22	3.30%	223	4.90E-05
7	3.79%	256	5.63E-05	15	7.01%	473	1.04E-04	23	2.46%	166	3.66E-05
8	7.77%	524	1.15E-04	16	7.14%	482	1.06E-04	24	1.86%	126	2.77E-05
								Total		6,750	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

E. Julian Street

TOG Exhaust Modeling - Roadway Links, Traffic Volumes, and TOG Exhaust Emissions

Year = 2025

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
TEXH_NBEJ	Northbound E Julian	SW-NE	2	761	0.47	13.3	44	1.3	30	6,750
TEXH_SBEJ	Southbound E Julian	NE-SW	2	761	0.47	13.3	44	1.3	30	6,750
									Total	13,500

Emission Factors - TOG Exhaust

Speed Category	1	2	3	4
Travel Speed (mph)	30			
All Vehicles TOG Emissions per Vehicle (g/VMT)	0.02537			
Diesel Vehicles TOG Emissions per Vehicle (g/VMT)	0.00168			
Gasoline Vehicles Emissions per Vehicle (g/VMT)	0.02369			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and TOG Exhaust Emissions - TEXH_NBEJ

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	78	2.41E-04	9	7.11%	480	1.49E-03	17	7.39%	499	1.55E-03
2	0.42%	28	8.85E-05	10	4.39%	296	9.21E-04	18	8.18%	552	1.72E-03
3	0.41%	28	8.57E-05	11	4.66%	315	9.79E-04	19	5.69%	384	1.20E-03
4	0.26%	18	5.46E-05	12	5.89%	397	1.24E-03	20	4.28%	289	8.97E-04
5	0.50%	34	1.04E-04	13	6.15%	415	1.29E-03	21	3.25%	220	6.83E-04
6	0.91%	61	1.90E-04	14	6.04%	408	1.27E-03	22	3.30%	223	6.92E-04
7	3.79%	256	7.95E-04	15	7.01%	473	1.47E-03	23	2.46%	166	5.17E-04
8	7.77%	524	1.63E-03	16	7.14%	482	1.50E-03	24	1.86%	126	3.91E-04
								Total		6,750	

2025 Hourly Traffic Volumes Per Direction and TOG Exhaust Emissions - TEXH_SBEJ

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	78	2.41E-04	9	7.11%	480	1.49E-03	17	7.39%	499	1.55E-03
2	0.42%	28	8.85E-05	10	4.39%	296	9.21E-04	18	8.18%	552	1.72E-03
3	0.41%	28	8.57E-05	11	4.66%	315	9.79E-04	19	5.69%	384	1.20E-03
4	0.26%	18	5.46E-05	12	5.89%	397	1.24E-03	20	4.28%	289	8.97E-04
5	0.50%	34	1.04E-04	13	6.15%	415	1.29E-03	21	3.25%	220	6.83E-04
6	0.91%	61	1.90E-04	14	6.04%	408	1.27E-03	22	3.30%	223	6.92E-04
7	3.79%	256	7.95E-04	15	7.01%	473	1.47E-03	23	2.46%	166	5.17E-04
8	7.77%	524	1.63E-03	16	7.14%	482	1.50E-03	24	1.86%	126	3.91E-04
								Total		6,750	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

E. Julian Street

TOG Evaporative Emissions Modeling - Roadway Links, Traffic Volumes, and TOG Evaporative Emissions

Year = 2025

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
TEVAP_NBNBEJ	Northbound E Julian	SW-NE	2	761	0.47	13.3	44	1.3	30	6,750
TEVAP_SBEJ	Southbound E Julian	NE-SW	2	761	0.47	13.3	44	1.3	30	6,750
									Total	13,500

Emission Factors - PM2.5 - Evaporative TOG

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Emissions per Vehicle per Hour (g/hour)	0.99856			
Emissions per Vehicle per Mile (g/VMT)	0.03329			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and TOG Evaporative Emissions - TEVAP_NBNBEJ

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	78	3.39E-04	9	7.11%	480	2.10E-03	17	7.39%	499	2.18E-03
2	0.42%	28	1.24E-04	10	4.39%	296	1.29E-03	18	8.18%	552	2.41E-03
3	0.41%	28	1.20E-04	11	4.66%	315	1.37E-03	19	5.69%	384	1.68E-03
4	0.26%	18	7.67E-05	12	5.89%	397	1.74E-03	20	4.28%	289	1.26E-03
5	0.50%	34	1.47E-04	13	6.15%	415	1.81E-03	21	3.25%	220	9.60E-04
6	0.91%	61	2.67E-04	14	6.04%	408	1.78E-03	22	3.30%	223	9.72E-04
7	3.79%	256	1.12E-03	15	7.01%	473	2.07E-03	23	2.46%	166	7.26E-04
8	7.77%	524	2.29E-03	16	7.14%	482	2.11E-03	24	1.86%	126	5.50E-04
								Total		6,750	

2025 Hourly Traffic Volumes Per Direction and TOG Evaporative Emissions - TEVAP_SBEJ

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	78	3.39E-04	9	7.11%	480	2.10E-03	17	7.39%	499	2.18E-03
2	0.42%	28	1.24E-04	10	4.39%	296	1.29E-03	18	8.18%	552	2.41E-03
3	0.41%	28	1.20E-04	11	4.66%	315	1.37E-03	19	5.69%	384	1.68E-03
4	0.26%	18	7.67E-05	12	5.89%	397	1.74E-03	20	4.28%	289	1.26E-03
5	0.50%	34	1.47E-04	13	6.15%	415	1.81E-03	21	3.25%	220	9.60E-04
6	0.91%	61	2.67E-04	14	6.04%	408	1.78E-03	22	3.30%	223	9.72E-04
7	3.79%	256	1.12E-03	15	7.01%	473	2.07E-03	23	2.46%	166	7.26E-04
8	7.77%	524	2.29E-03	16	7.14%	482	2.11E-03	24	1.86%	126	5.50E-04
								Total		6,750	

E. Julian Street and Tripp Avenue, San Jose, CA - Roadway Modeling Emissions

E. Julian Street

Fugitive Road PM2.5 Modeling - Roadway Links, Traffic Volumes, and Fugitive Road PM2.5 Emissions

Year = 2025

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
FUG_NBNBEJ	Northbound E Julian	SW-NE	2	761	0.47	13.3	44	1.3	30	6,750
FUG_SBEJ	Southbound E Julian	NE-SW	2	761	0.47	13.3	44	1.3	30	6,750
									Total	13,500

Emission Factors - Fugitive PM2.5

Speed Category	1	2	3	4
Travel Speed (mph)	30			
Tire Wear - Emissions per Vehicle (g/VMT)	0.00211			
Brake Wear - Emissions per Vehicle (g/VMT)	0.00548			
Road Dust - Emissions per Vehicle (g/VMT)	0.01531			
Total Fugitive PM2.5 - Emissions per Vehicle (g/VMT)	0.02290			

Emisson Factors from CT-EMFAC2021

2025 Hourly Traffic Volumes and Fugitive PM2.5 Emissions - FUG_NBNBEJ

Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s	Hour	% Per Hour	VPH	g/s
1	1.15%	78	2.33E-04	9	7.11%	480	1.44E-03	17	7.39%	499	1.50E-03
2	0.42%	28	8.56E-05	10	4.39%	296	8.90E-04	18	8.18%	552	1.66E-03
3	0.41%	28	8.28E-05	11	4.66%	315	9.46E-04	19	5.69%	384	1.16E-03
4	0.26%	18	5.27E-05	12	5.89%	397	1.19E-03	20	4.28%	289	8.67E-04
5	0.50%	34	1.01E-04	13	6.15%	415	1.25E-03	21	3.25%	220	6.60E-04
6	0.91%	61	1.84E-04	14	6.04%	408	1.23E-03	22	3.30%	223	6.69E-04
7	3.79%	256	7.68E-04	15	7.01%	473	1.42E-03	23	2.46%	166	4.99E-04
8	7.77%	524	1.58E-03	16	7.14%	482	1.45E-03	24	1.86%	126	3.78E-04
								Total		6,750	

2025 Hourly Traffic Volumes Per Direction and Fugitive PM2.5 Emissions - FUG_SBEJ

Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile	Hour	% Per Hour	VPH	g/mile
1	1.15%	78	2.33E-04	9	7.11%	480	1.44E-03	17	7.39%	499	1.50E-03
2	0.42%	28	8.56E-05	10	4.39%	296	8.90E-04	18	8.18%	552	1.66E-03
3	0.41%	28	8.28E-05	11	4.66%	315	9.46E-04	19	5.69%	384	1.16E-03
4	0.26%	18	5.27E-05	12	5.89%	397	1.19E-03	20	4.28%	289	8.67E-04
5	0.50%	34	1.01E-04	13	6.15%	415	1.25E-03	21	3.25%	220	6.60E-04
6	0.91%	61	1.84E-04	14	6.04%	408	1.23E-03	22	3.30%	223	6.69E-04
7	3.79%	256	7.68E-04	15	7.01%	473	1.42E-03	23	2.46%	166	4.99E-04
8	7.77%	524	1.58E-03	16	7.14%	482	1.45E-03	24	1.86%	126	3.78E-04
								Total		6,750	

Eggo Co. Boiler Emissions and Modeling Information

E. Julian St & Tripp Ave Residential, San Jose

Eggo Co.- Boiler PM2.5 Emissions

	Stack Location				Stack		Stack Gas[1]					
	UTM-X	UTM-Y	Building Height		Height	Diameter[1]	Temp.	Velocity	PM2.5 Emission Rate[2]			
Description	(m)	(m)	(ft)	(m)	(m)	(m)	(K)	(m/s)	(tons/year)	(lb/day)	(lb/hr)	(g/s)
Small Boiler	599939.9	4135006.7	25	7.62	10.67	0.5	464.6	6.87	0.1439	0.789	0.032855	0.00414

[1] Stack Parameters based on default values for a small boiler in Appendix A Modeling Parameters from:
San Joaquin Valley Air Pollution Control District, *Final Draft Staff Report, Update to District's Risk Management Policy to Address OEHHA's Revised Risk Assessment Guidance Document.* . March 18, 2015.

[2] Correspondence with Matthew Hanson, Environmental Planner II, BAAQMD, June 9, 2022.

Cumulative Health Risk Calculations for Project MEIs

E. Julian St & Tripp Ave Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
Off-Site MEI Receptor - 1st Floor

Receptor Information

Number of Receptors	1
Receptor Height =	1st floor level
Receptor distances =	at project MEI receptor

Meteorological Conditions

CARB San Jose Airport Met Data	2013-2017
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2024 - Construction	0.02372	0.0000	0.0000
2025 - Construction	0.02751	0.0000	0.0000
2026 - Construction	0.02259	0.0000	0.0000
2027 - Construction	0.04664	0.0000	0.0000
2028 - Construction	0.01326	0.0000	0.0000
2029 - Construction	0.00028	0.0000	0.0000
2024-2053 - Roads	0.00784	0.1177	0.1205

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2025	0.05

E. Julian St & Tripp Ave Residential - Impacts at Off-Site Project MEI
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
Off-Site MEI Receptor - 1st Floor
Residential Exposure (30-year)

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 $(mg/kg\text{-}day)^{-1}$
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 $(\mu g/m^3)$
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

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

	Infant/Child			Adult
Age -->	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
ED =	0.25	2	14	14
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

Construcion & Road Traffic Cancer Risk by Year - Maximum Impact On-SiteReceptor Location

				Maximum - Exposure Information				Cancer Risk (per million)			
					Annual TAC Conc (ug/m3)						
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
1	2024	0.25	-0.25 - 0*	10	0.0316	0.1177	0.1205	0.4292	0.0276	0.0017	0.458
2	2025	1	1	10	0.0354	0.1177	0.1205	5.8061	0.1103	0.0067	5.923
3	2026	1	2	10	0.0304	0.1177	0.1205	4.9980	0.1103	0.0067	5.115
4	2027	1	3	3	0.0545	0.1177	0.1205	1.4087	0.0174	0.0010	1.427
5	2028	1	4	3	0.0211	0.1177	0.1205	0.5456	0.0174	0.0010	0.564
6	2029	1	5	3	0.0081	0.1177	0.1205	0.2100	0.0174	0.0010	0.228
7	2030	1	6	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
8	2031	1	7	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
9	2032	1	8	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
10	2033	1	9	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
11	2034	1	10	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
12	2035	1	11	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
13	2036	1	12	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
14	2037	1	13	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
15	2038	1	14	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
16	2039	1	15	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
17	2040	1	16	3	0.0078	0.1177	0.1205	0.2027	0.0174	0.0010	0.221
18	2041	1	17	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
19	2042	1	18	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
20	2043	1	19	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
21	2044	1	20	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
22	2045	1	21	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
23	2046	1	22	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
24	2047	1	23	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
25	2048	1	24	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
26	2049	1	25	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
27	2050	1	26	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
28	2051	1	27	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
29	2052	1	28	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
30	2053	1	29	1	0.0078	0.1177	0.1205	0.0225	0.0019	0.0001	0.025
Total Increased Cancer Risk								15.9202	0.5165	0.0312	**16.47**

* Third trimester of pregnancy

E. Julian St & Tripp Ave Construction & Operation
Cancer Risk Calculations for Project Construction and Operation- Unmitigated
at Off-Site MEI Receptor - 1st Floor

Exposure Types and Durations (years) for Cancer Risk Calculations - Project Impacts

Year(s) ->	2024	2025	2026	2027	2028	2029	2024-2053	
Duration ->	1	1	1	1	1	1	30.25	30.25
Activity ->	Construct	Construct	Construct	Construct	Construct	Construct	East	Hwy 101
Exposure Type							Julian	Traffic
3rd Trimester (10)	0.25	0	0	0	0	0	0.25	0.25
Infant (10)	0	1	1	0	0	0	2	2
Child (3)	0	0	0	1	1	1	14	14
Adult (1)	0	0	0	0	0	0	14	14

Receptor No.	Receptor Coordinates UTM-X (m)	UTM-Y (m)	Desc	2024 Construct DPM	2025 Construct DPM	2026 Construct DPM	2027 Construct DPM	2028 Construct DPM	2029 Construct DPM	2024 Construct Risk	2025 Construct Risk	2026 Construct Risk	2027 Construct Risk	2028 Construct Risk	2029 Construct Risk
Max Cell Address -->				Y29	Z29	AA29	AB29	AC29	AD29	AH29	AI29	AJ29	AK29	AL29	AM29
Max -->				**0.02372**	**0.02751**	**0.02259**	**0.04664**	**0.01326**	**0.00028**	**0.32258**	**4.51842**	**3.71033**	**1.20600**	**0.34287**	**0.00724**
2	600225.12	4134737.12	Off-Site CancerMEI	0.02372	0.02751	0.02259	0.04664	0.01326	0.00028	0.32258	4.51842	3.71033	1.20600	0.34287	0.00724

Receptor No.	Local Roads- E Julian Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	Total	U.S. Highway 101 Concentration DPM	Exh TOG	Evap TOG	Cancer Risk (per million) DPM	Exh TOG	Evap TOG	Total	Total - Cancer Risk Cancer Risk (per million) DPM	Exh TOG	Evap TOG	TOTAL	Construction Risk - Tot Cancer Risk (per million) DPM	Exh TOG	Evap TOG
Max Cell Address -->	AQ29	AR29	AS29	AT29	AU29	AV29	AW29	AX29	AY29	AZ29	BA29	BB29	BC29	BD29	BK29	BL29	BM29	BP29	BQ29	BR29	BS29
Max -->	**0.00054**	**0.02931**	**0.03361**	**0.40192**	**0.12457**	**0.00842**	**0.53491**	**0.00730**	**0.08834**	**0.08687**	**5.43333**	**0.37545**	**0.02177**	**5.83055**	**15.94268**	**0.50001**	**0.03020**	**16.47290**	**10.10744**	**0.00000**	**0.00000**
								2025-2054													
2	0.0005	0.0293	0.0336	0.40192	0.12457	0.00842	0.53491	0.00730	0.0883	0.0869	5.43333	0.37545	0.02177	5.83055	15.943	0.500	0.030	16.473	10.107	0.000	0.000

E. Julian St & Tripp Ave Residential , San Jose - Impacts at Project MEI
Total PM2.5 Concentrations From Construction and Operation - Unmitigated
Off-Site PM2.5 MEI Receptor - 1st Floor

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations Construction 2024	2025	2026	2027	2028	2029	Eggo Boiler 2024-2053	Operation Roads E Julian 2024-2053	U.S. 101 2024-2053
134	600047.42	4134616.74	OffSite PM2.5 MEI	0.00082	0.00095	0.00081	**0.33510**	0.01721	0.00695	0.00598	0.02615	0.02184

E. Julian St & Tripp Ave Residential , San Jose - Impacts at Project MEI
Total PM2.5 Concentrations From Construction and Operation - Mitigated
Off-Site PM2.5 MEI Receptor - 1st Floor

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations Construction 2024	2025	2026	2027	2028	2029	Eggo Boiler 2024-2053	Operation Roads E Julian 2024-2053	U.S. 101 2024-2053
134	600047.42	4134616.74	OffSite PM2.5 MEI	0.24367	0.03559	0.02797	**0.28077**	0.02389	0.00716	0.00598	0.02615	0.02184

Cumulative Health Risk Calculations for On-Site Project Receptors

E. Julian St & Tripp Ave Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
On-Site Residential Receptors - 1347 E. Julian 2nd Floor

Receptor Information

Number of Receptors	18
Receptor Height =	2nd floor level - 8.82 meters
Receptor distances =	7m grid spacing in residential building

Meteorological Conditions

CARB San Jose Airport Met Data	2013-2017
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2026 - Construction	0.02590	0.0000	0.0000
2027 - Construction	0.05309	0.0000	0.0000
2028 - Construction	0.01511	0.0000	0.0000
2029 - Construction	0.00029	0.0000	0.0000
2026-2055 - Roads	0.00465	0.0710	0.0779

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2027	0.16

E. Julian St & Tripp Ave Residential - Project Impacts at Locations of On-Site Receptors
Maximum Cancer Risk Calculations for Project Construction and Operation- Unmitigated
On-Site Residential Receptors - 1347 E. Julian 2nd Floor
Residential Exposure (30-year)

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 $(mg/kg\text{-}day)^{-1}$
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 ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

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

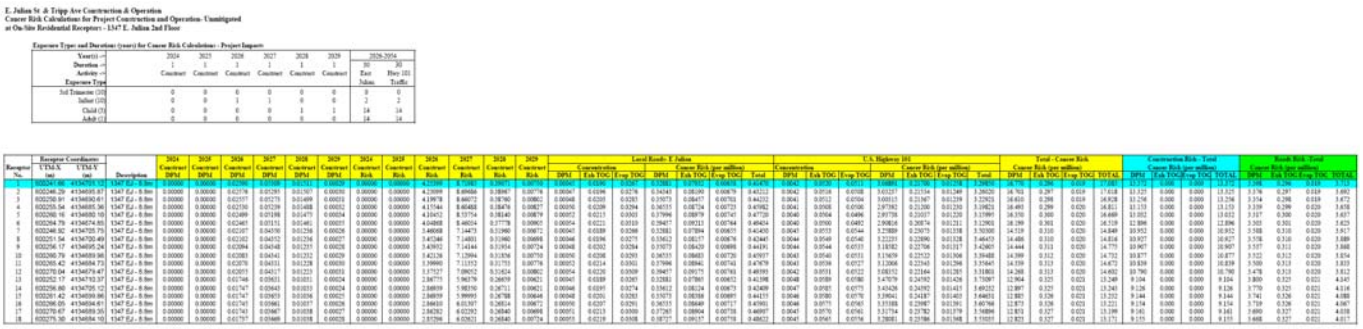
	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

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

Construcion & Road Traffic Cancer Risk by Year - Maximum Impact On-SiteReceptor Location

				Maximum - Exposure Information							
					Annual TAC Conc (ug/m3)			Cancer Risk (per million)			
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
1	2026	1	1	10	0.0306	0.0710	0.0779	5.0177	0.0666	0.0043	5.089
2	2027	1	2	10	0.0577	0.0710	0.0779	9.484	0.0666	0.0043	9.555
3	2028	1	3	3	0.0198	0.0710	0.0779	0.5109	0.0105	0.0007	0.522
4	2029	1	4	3	0.0049	0.0710	0.0779	0.1277	0.0105	0.0007	0.139
5	2030	1	5	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
6	2031	1	6	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
7	2032	1	7	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
8	2033	1	8	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
9	2034	1	9	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
10	2035	1	10	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
11	2036	1	11	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
12	2037	1	12	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
13	2038	1	13	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
14	2039	1	14	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
15	2040	1	15	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
16	2041	1	16	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
17	2042	1	17	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
18	2043	1	18	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
19	2044	1	19	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
20	2045	1	20	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
21	2046	1	21	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
22	2047	1	22	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
23	2048	1	23	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
24	2049	1	24	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
25	2050	1	25	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
26	2051	1	26	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
27	2052	1	27	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
28	2053	1	28	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
29	2054	1	29	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
30	2055	1	30	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
Total Increased Cancer Risk								16.7698	0.2963	0.0192	**17.09**

* Third trimester of pregnancy



E. Julian St & Tripp Ave Residential , San Jose - Project Impacts
Total PM2.5 Concentrations From Construction and Operation - Unmitigated
On-Site Residential Receptors - 2nd Floor

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations						
				Construction				Eggo Boiler	Operation Roads	
				2026	2027	2028	2029	2026-2055	E Julian 2026-2055	U.S. 101 2026-2055
1	600241.66	4134701.12	1347 EJ - 8.8m	0.03392	0.07129	0.01959	0.00034	0.02212	0.01970	0.04798
2	600246.29	4134695.87	1347 EJ - 8.8m	0.03380	0.07133	0.01955	0.00035	0.02154	0.02035	0.04761
3	600250.91	4134690.61	1347 EJ - 8.8m	0.03361	0.07131	0.01949	0.00037	0.02098	0.02101	0.04724
4	600255.54	4134685.36	1347 EJ - 8.8m	0.03335	0.07117	0.01938	0.00038	0.02045	0.02167	0.04688
5	600260.16	4134680.10	1347 EJ - 8.8m	0.03305	0.07099	0.01926	0.0004	0.01992	0.02231	0.04651
6	600264.79	4134674.85	1347 EJ - 8.8m	0.03274	0.07078	0.01913	0.00041	0.01944	0.02289	0.04615
7	600246.92	4134705.75	1347 EJ - 8.8m	0.02853	0.06034	0.01653	0.00031	0.02262	0.01961	0.05102
8	600251.54	4134700.49	1347 EJ - 8.8m	0.02852	0.06055	0.01655	0.00032	0.02201	0.02026	0.05061
9	600256.17	4134695.24	1347 EJ - 8.8m	0.02846	0.06069	0.01655	0.00033	0.02143	0.02092	0.05021
10	600260.79	4134689.98	1347 EJ - 8.8m	0.02838	0.06082	0.01653	0.00034	0.02087	0.02157	0.04980
11	600265.42	4134684.73	1347 EJ - 8.8m	0.02827	0.06092	0.01651	0.00035	0.02034	0.02221	0.04940
12	600270.04	4134679.47	1347 EJ - 8.8m	0.02814	0.06102	0.01648	0.00037	0.01984	0.02279	0.04900
13	600252.17	4134710.37	1347 EJ - 8.8m	0.02423	0.05163	0.01408	0.00028	0.02307	0.01954	0.05437
14	600256.80	4134705.12	1347 EJ - 8.8m	0.02429	0.05192	0.01414	0.00029	0.02245	0.02018	0.05393
15	600261.42	4134699.86	1347 EJ - 8.8m	0.02433	0.05221	0.01419	0.0003	0.02185	0.02083	0.05348
16	600266.05	4134694.61	1347 EJ - 8.8m	0.02435	0.05246	0.01422	0.00031	0.02127	0.02148	0.05303
17	600270.67	4134689.35	1347 EJ - 8.8m	0.02435	0.05273	0.01425	0.00032	0.02073	0.02212	0.05259
18	600275.30	4134684.10	1347 EJ - 8.8m	0.02432	0.05294	0.01427	0.00033	0.02021	0.02270	0.05215

E. Julian St & Tripp Ave Construction & Operation Sources - TACs & PM2.5
AERMOD Risk Modeling Parameters and Maximum Concentrations
Maximum Cancer Risk Calculations for Project Construction and Operation- Mitigated
On-Site Residential Receptors - 1347 E. Julian 2nd Floor

Receptor Information

Number of Receptors	18
Receptor Height =	2nd floor level - 8.82 meters
Receptor distances =	7m grid spacing in residential building

Meteorological Conditions

CARB San Jose Airport Met Data	2013-2017
Land Use Classification	urban
Wind speed =	variable
Wind direction =	variable

Off-Site MEIs Maximum Concentrations

Emission Years	Concentration (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2026 - Construction	0.01158	0.0000	0.0000
2027 - Construction	0.05054	0.0000	0.0000
2028 - Construction	0.01601	0.0000	0.0000
2029 - Construction	0.00096	0.0000	0.0000
2026-2055 - Roads	0.00465	0.0710	0.0779

Emission Year	Maximum Total PM2.5 Concentration (µg/m3)
2027	0.16

E. Julian St & Tripp Ave Residential - Project Impacts at Locations of On-Site Receptors
Maximum Cancer Risk Calculations for Project Construction and Operation- Mitigated
On-Site Residential Receptors - 1347 E. Julian 2nd Floor
Residential Exposure (30-year)

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 $(mg/kg\text{-}day)^{-1}$
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 ($\mu g/m^3$)
DBR = daily breathing rate (L/kg body weight-day)
A = Inhalation absorption factor
EF = Exposure frequency (days/year)
10^{-6} = Conversion factor

Values

Cancer Potency Factors $(mg/kg\text{-}day)^{-1}$

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

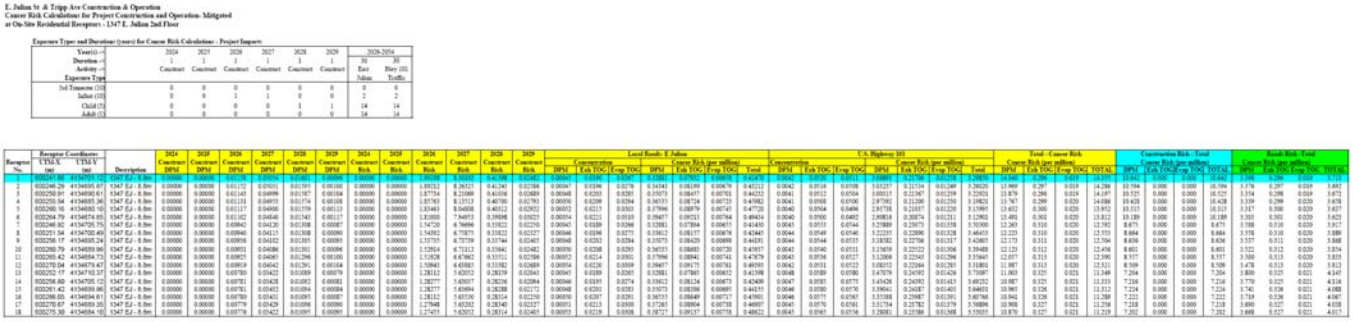
	Infant/Child			Adult
Age -->	3rd Trimester	0 - <2	2 - <16	16 - 30
Parameter				
ASF	10	10	3	1
DBR* =	361	1090	572	261
A =	1	1	1	1
EF =	350	350	350	350
ED =	0.25	2	14	14
AT =	70	70	70	70
FAH =	1.00	1.00	1.00	0.73

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

Construcion & Road Traffic Cancer Risk by Year - Maximum Impact On-SiteReceptor Location

				Maximum - Exposure Information							
					Annual TAC Conc (ug/m3)			Cancer Risk (per million)			
Exposure Year	Year	Exposure Duration (years)	Age	Age Sensitivity Factor	DPM	Exhaust TOG	Evaporative TOG	DPM	Exhaust TOG	Evaporative TOG	Total
1	2026	1	1	10	0.0162	0.0710	0.0779	2.6657	0.0666	0.0043	2.737
2	2027	1	2	10	0.0552	0.0710	0.0779	9.065	0.0666	0.0043	9.136
3	2028	1	3	3	0.0207	0.0710	0.0779	0.5342	0.0105	0.0007	0.545
4	2029	1	4	3	0.0056	0.0710	0.0779	0.1451	0.0105	0.0007	0.156
5	2030	1	5	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
6	2031	1	6	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
7	2032	1	7	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
8	2033	1	8	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
9	2034	1	9	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
10	2035	1	10	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
11	2036	1	11	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
12	2037	1	12	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
13	2038	1	13	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
14	2039	1	14	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
15	2040	1	15	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
16	2041	1	16	3	0.0047	0.0710	0.0779	0.1202	0.0105	0.0007	0.131
17	2042	1	17	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
18	2043	1	18	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
19	2044	1	19	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
20	2045	1	20	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
21	2046	1	21	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
22	2047	1	22	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
23	2048	1	23	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
24	2049	1	24	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
25	2050	1	25	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
26	2051	1	26	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
27	2052	1	27	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
28	2053	1	28	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
29	2054	1	29	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
30	2055	1	30	1	0.0047	0.0710	0.0779	0.013	0.0012	0.0001	0.015
Total Increased Cancer Risk								14.0395	0.2963	0.0192	**14.36**

* Third trimester of pregnancy



E. Julian St & Tripp Ave Residential , San Jose - Project Impacts
Total PM2.5 Concentrations From Construction and Operation - Mitigated
On-Site Residential Receptors - 2nd Floor

Receptor No.	UTM-X	UTM-Y	Description	Total PM2.5 Concentrations						
				Construction				Eggo Boiler	Operation Roads	
				2026	2027	2028	2029	2026-2055	E Julian 2026-2055	U.S. 101 2026-2055
1	600241.66	4134701.12	1347 EJ - 8.8m	0.01960	0.06840	0.02048	0.00101	0.02212	0.01970	0.04798
2	600246.29	4134695.87	1347 EJ - 8.8m	0.01955	0.06834	0.02044	0.00105	0.02154	0.02035	0.04761
3	600250.91	4134690.61	1347 EJ - 8.8m	0.01947	0.06820	0.02036	0.00109	0.02098	0.02101	0.04724
4	600255.54	4134685.36	1347 EJ - 8.8m	0.01936	0.06793	0.02024	0.00114	0.02045	0.02167	0.04688
5	600260.16	4134680.10	1347 EJ - 8.8m	0.01924	0.06762	0.02011	0.00119	0.01992	0.02231	0.04651
6	600264.79	4134674.85	1347 EJ - 8.8m	0.01911	0.06727	0.01996	0.00124	0.01944	0.02289	0.04615
7	600246.92	4134705.75	1347 EJ - 8.8m	0.01689	0.05774	0.01725	0.00091	0.02262	0.01961	0.05102
8	600251.54	4134700.49	1347 EJ - 8.8m	0.01690	0.05786	0.01726	0.00095	0.02201	0.02026	0.05061
9	600256.17	4134695.24	1347 EJ - 8.8m	0.01689	0.05790	0.01725	0.00098	0.02143	0.02092	0.05021
10	600260.79	4134689.98	1347 EJ - 8.8m	0.01686	0.05793	0.01723	0.00102	0.02087	0.02157	0.04980
11	600265.42	4134684.73	1347 EJ - 8.8m	0.01683	0.05792	0.0172	0.00106	0.02034	0.02221	0.04940
12	600270.04	4134679.47	1347 EJ - 8.8m	0.01678	0.05789	0.01716	0.0011	0.01984	0.02279	0.04900
13	600252.17	4134710.37	1347 EJ - 8.8m	0.01458	0.04926	0.01467	0.00083	0.02307	0.01954	0.05437
14	600256.80	4134705.12	1347 EJ - 8.8m	0.01463	0.04948	0.01472	0.00086	0.02245	0.02018	0.05393
15	600261.42	4134699.86	1347 EJ - 8.8m	0.01467	0.04969	0.01477	0.00088	0.02185	0.02083	0.05348
16	600266.05	4134694.61	1347 EJ - 8.8m	0.01470	0.04986	0.0148	0.00091	0.02127	0.02148	0.05303
17	600270.67	4134689.35	1347 EJ - 8.8m	0.01472	0.05003	0.01483	0.00095	0.02073	0.02212	0.05259
18	600275.30	4134684.10	1347 EJ - 8.8m	0.01472	0.05015	0.01484	0.00098	0.02021	0.02270	0.05215

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 coducting 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	**6/20/2022**
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	cdivine@illingworthrodkin.com
Project Name	
Address	
City	San Jose
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	206 du
Comments:	

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

1. Complete all the contact and project information requested in **Table A** mplete 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** section only.

6. Note that a small percentage of the stationary 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

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 coducting 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	**6/20/2022**
Contact Name	Casey Divine
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x103
Email	cdivine@illingworthrodkin.com
Project Name	
Address	
City	San Jose
County	Santa Clara
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	206 du
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 ue 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	Cancer Risk Distance Adjustment Multiplier	PM2.5 Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
+1000/+1000	5582	Eggo Company	475 Eggo Way	4.83	0.01	91.60		Manufacturing		2020 Dataset	0.13	0.13	0.64	0.001	12.07
+1000/+1000	18356	Verizon Wireless (Hwy 101/Juli	1401 E Santa Clara St	1.14	0.0003	0.001		Generators		2020 Dataset	0.04	0.04	0.05	0.00001	0.0001
NA	23894	Therma LLC	1551 Las Plumas Ave	-	0.0001	-		Manufacturing		2020 Dataset - No longer there	NA	NA	#VALUE!	#VALUE!	#VALUE!
700/375	110689-1	Mobil SS#63175	1256 E Julian St	22.34	0.11	-		Gas Dispensing Facility		2020 Dataset	0.03	0.07	0.57	0.003	#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
    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
    e. Gas stations can be adjusted using BAAQMD's Gas Station Distance Mulitplier 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 MEIs

Project Site 1347 E. Julian

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
445	5582				
>1,000	18356	0.04	0.05	0.00001	0.0001
>1,000	23894	0.03	#VALUE!	0.000001	#VALUE!
475	110689-1	0.04	0.98	0.005	#VALUE!

Project Site 1298 Tripp

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
885	5582				
>1,000	18356	0.04	0.05	0.00001	0.0001
>1,000	23894	0.03	#VALUE!	0.000001	#VALUE!
420	110689-1	0.06	1.34	0.01	#VALUE!

Project Site 1325 E. Julian

Distance from	FACID (Plant No.)	Distance	Adjusted	Adjusted	Adjusted
1150	5582				
	18356				
>1,000		0.04	0.05	0.00001	0.0001
>1,000	23894	0.03	#VALUE!	0.000001	#VALUE!
650	110689-1	0.03	0.67	0.003	#VALUE!

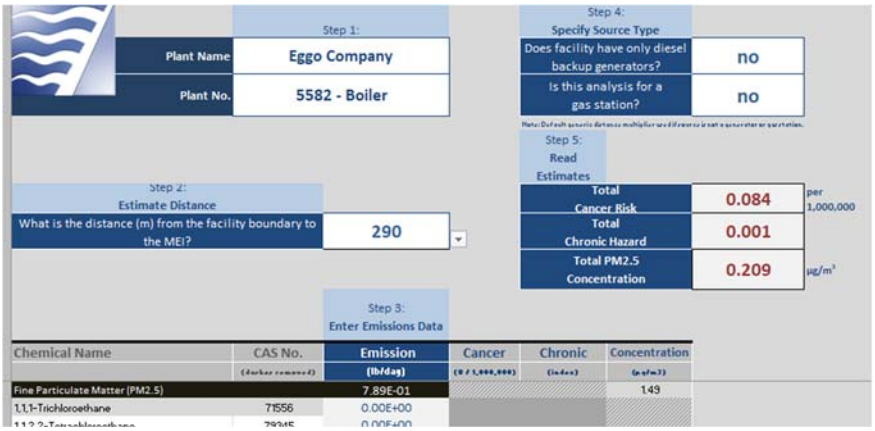
Source #5582

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

A HEALTHY BREATHING ENVIRONMENT FOR EVERY BAY AREA RESIDENT

BAAQMD Risk and Hazards Emissions Screening Calculator Instructions (Beta Version)

Boiler at 950 feet from MEIs

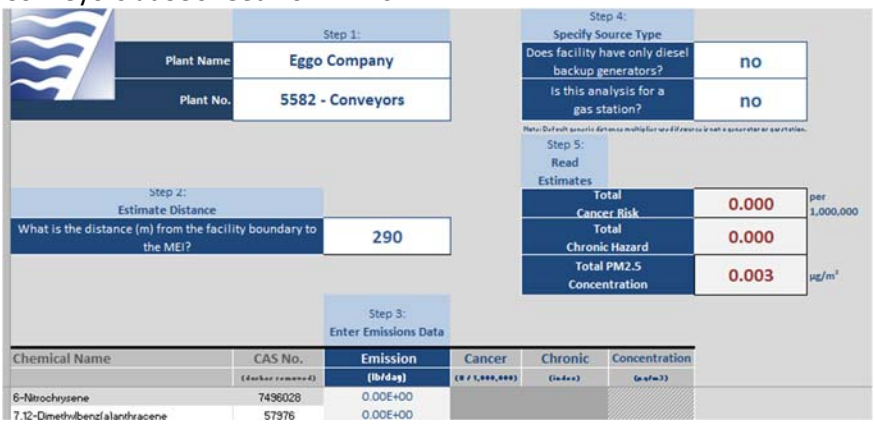


Step 1: Plant Name	Eggo Company
Plant No.	5582 - Boiler
Step 4: Specify Source Type — Does facility have only diesel backup generators?	no
Is this analysis for a gas station?	no
Step 2: Estimate Distance — What is the distance (m) from the facility boundary to the MEI?	290
Step 5: Read Estimates — Total Cancer Risk (per 1,000,000)	0.084
Total Chronic Hazard	0.001
Total PM2.5 Concentration (µg/m³)	0.209

Step 3: Enter Emissions Data

Chemical Name	CAS No.	Emission (lb/day)	Cancer (0 / 1,000,000)	Chronic (index)	Concentration (µg/m3)
Fine Particulate Matter (PM2.5)		7.89E-01			149
1,1,1-Trichloroethane	71556	0.00E+00			

Conveyors at 950 feet from MEIs

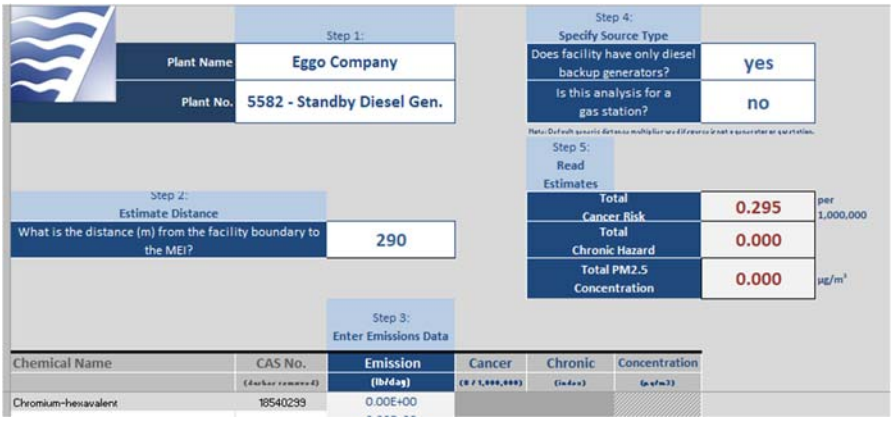


Step 1: Plant Name	Eggo Company
Plant No.	5582 - Conveyors
Step 4: Specify Source Type — Does facility have only diesel backup generators?	no
Is this analysis for a gas station?	no
Step 2: Estimate Distance — What is the distance (m) from the facility boundary to the MEI?	290
Step 5: Read Estimates — Total Cancer Risk (per 1,000,000)	0.000
Total Chronic Hazard	0.000
Total PM2.5 Concentration (µg/m³)	0.003

Step 3: Enter Emissions Data

Chemical Name	CAS No.	Emission (lb/day)	Cancer (0 / 1,000,000)	Chronic (index)	Concentration (µg/m3)
6-Nitrochrysene	7496028	0.00E+00			
7,12-Dimethylbenz(a)anthracene	57976	0.00E+00			

Diesel Generators at 950 feet from MEIs



Step 1: Plant Name	Eggo Company
Plant No.	5582 - Standby Diesel Gen.
Step 4: Specify Source Type — Does facility have only diesel backup generators?	yes
Is this analysis for a gas station?	no
Step 2: Estimate Distance — What is the distance (m) from the facility boundary to the MEI?	290
Step 5: Read Estimates — Total Cancer Risk (per 1,000,000)	0.295
Total Chronic Hazard	0.000
Total PM2.5 Concentration (µg/m³)	0.000

Step 3: Enter Emissions Data

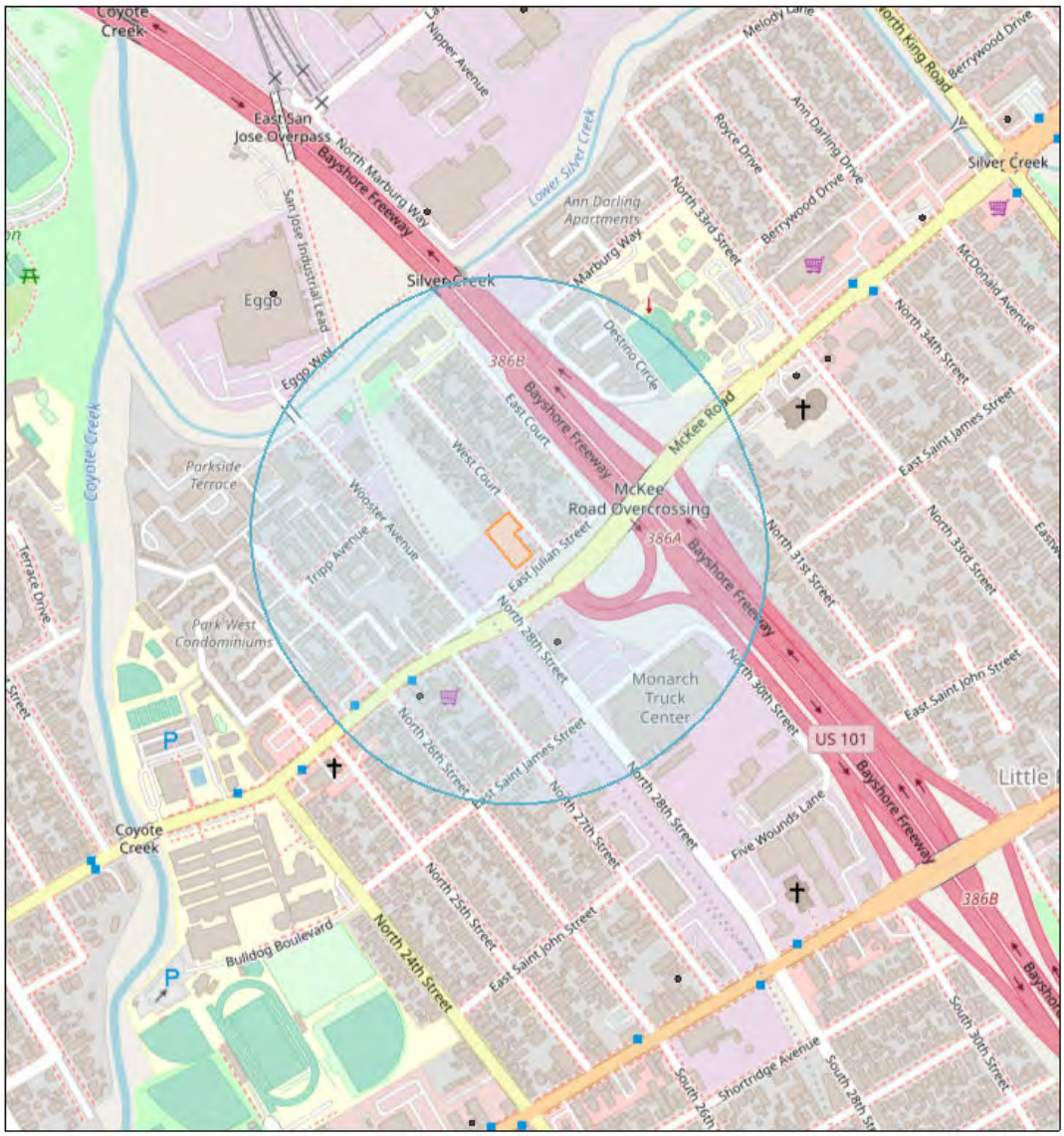
Chemical Name	CAS No.	Emission (lb/day)	Cancer (0 / 1,000,000)	Chronic (index)	Concentration (µg/m3)
Chromium-hexavalent	18540299	0.00E+00			

Screening Report

Area of Interest (AOI) Information

Area : 3,791,781.15 ft²

Nov 10 2022 14:18:11 Pacific Standard Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	2	N/A	N/A

Permitted Stationary Sources

#	FacID	FacName	Address	City	Street
1	18356	Verizon Wireless (Hwy 101/Julian)	1401 E Santa Clara St	San Jose	CA
2	110689_1	Mobil SS#63175	1256 E Julian St	San Jose	CA

#	Zip	County	Latitude	Longitude	Details
1	95,116.00	Santa Clara	37.35	-121.87	Generator
2	95,116.00	Santa Clara	37.35	-121.87	Gas Dispensing Facility

#	NAICS	Sector	Sub_Sector	Industry	ChronicHI
1	517,210.00	Information	Telecommunications	Wireless Telecommunications Carriers (except Satellite)	0.0003059
2	447,110.00	Retail Trade	Gasoline Stations	Gasoline Stations with Convenience Stores	0.1070095

#	PM2_5	Cancer Risk {expression/expr0}	Chronic Hazard Index {expression/expr1}	PM2.5 {expression/expr2}	Count
1	0.0014333	1.139	0	0.001	1
2	0.0000000	22.344	0.107	*No Data*	1

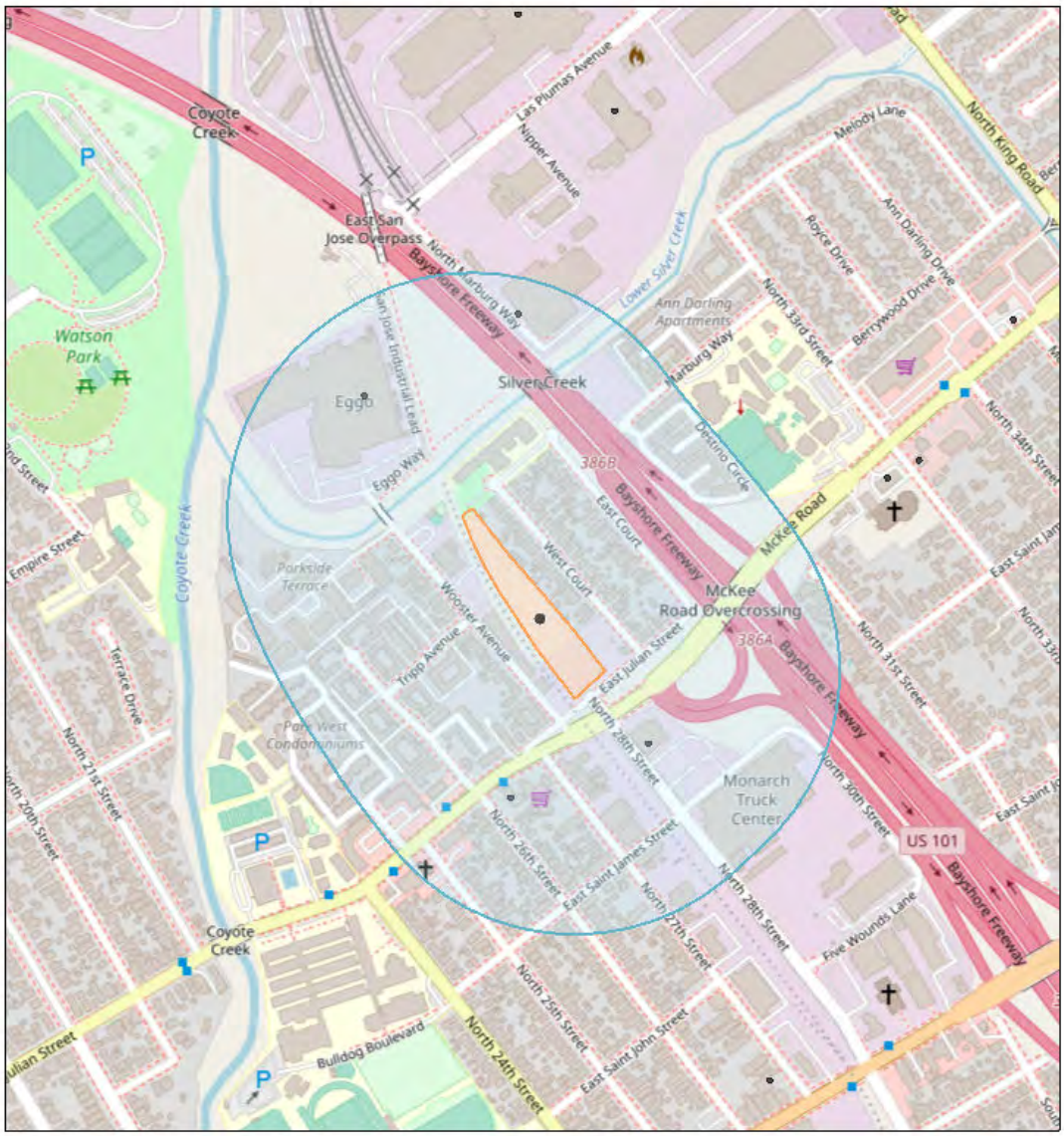
NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

Screening Report

Area of Interest (AOI) Information

Area : 5,295,173.62 ft²

Nov 10 2022 14:26:07 Pacific Standard Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	4	N/A	N/A

Permitted Stationary Sources

#	FacID	FacName	Address	City	Street
1	5582	Eggo Company	475 Eggo Way	San Jose	CA
2	18356	Verizon Wireless (Hwy 101/Julian)	1401 E Santa Clara St	San Jose	CA
3	23894	Therma LLC	1551 Las Plumas Ave	San Jose	CA
4	110689_1	Mobil SS#63175	1256 E Julian St	San Jose	CA

#	Zip	County	Latitude	Longitude	Details
1	95,116.00	Santa Clara	37.36	-121.87	*No Data*
2	95,116.00	Santa Clara	37.35	-121.87	Generator
3	95,133.00	Santa Clara	37.36	-121.87	*No Data*
4	95,116.00	Santa Clara	37.35	-121.87	Gas Dispensing Facility

#	NAICS	Sector	Sub_Sector	Industry	ChronicHI
1	311,211.00	Manufacturing	Food Manufacturing	Flour Milling	0.0092073
2	517,210.00	Information	Telecommunications	Wireless Telecommunications Carriers (except Satellite)	0.0003059
3	332,322.00	Manufacturing	Fabricated Metal Product Manufacturing	Sheet Metal Work Manufacturing	0.0000512
4	447,110.00	Retail Trade	Gasoline Stations	Gasoline Stations with Convenience Stores	0.1070095

#	PM2_5	Cancer Risk {expression/expr0}	Chronic Hazard Index {expression/expr1}	PM2.5 {expression/expr2}	Count
1	91.6023872	4.825	0.009	91.602	1
2	0.0014333	1.139	0	0.001	1
3	0.0000000	*No Data*	0	*No Data*	1
4	0.0000000	22.344	0.107	*No Data*	1

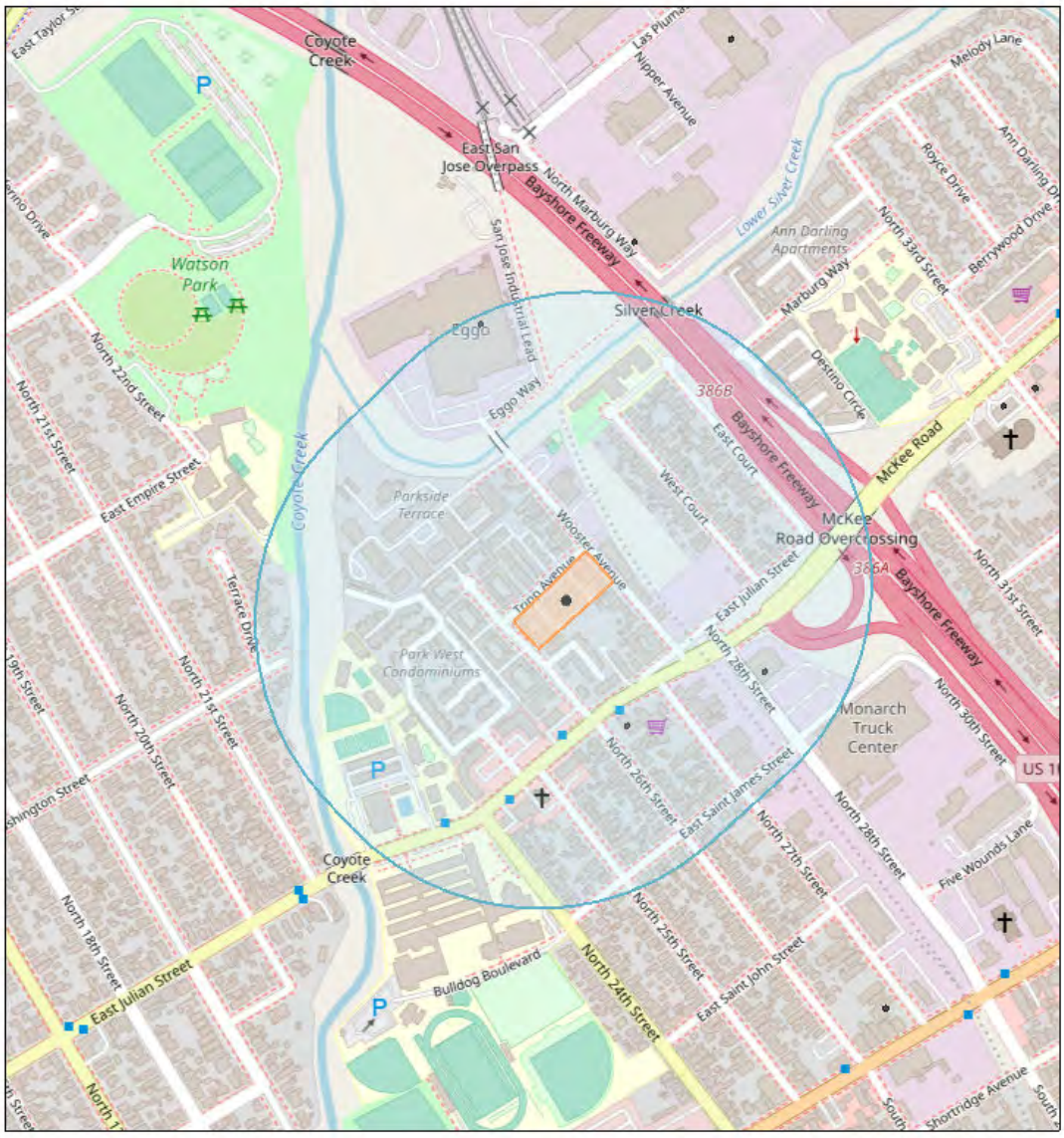
NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

Screening Report

Area of Interest (AOI) Information

Area : 5,175,193.78 ft²

Nov 10 2022 14:06:17 Pacific Standard Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	3	N/A	N/A

Permitted Stationary Sources

#	FacID	FacName	Address	City	Street
1	5582	Eggo Company	475 Eggo Way	San Jose	CA
2	18356	Verizon Wireless (Hwy 101/Julian)	1401 E Santa Clara St	San Jose	CA
3	110689_1	Mobil SS#63175	1256 E Julian St	San Jose	CA

#	Zip	County	Latitude	Longitude	Details
1	95,116.00	Santa Clara	37.36	-121.87	*No Data*
2	95,116.00	Santa Clara	37.35	-121.87	Generator
3	95,116.00	Santa Clara	37.35	-121.87	Gas Dispensing Facility

#	NAICS	Sector	Sub_Sector	Industry	ChronicHI
1	311,211.00	Manufacturing	Food Manufacturing	Flour Milling	0.0092073
2	517,210.00	Information	Telecommunications	Wireless Telecommunications Carriers (except Satellite)	0.0003059
3	447,110.00	Retail Trade	Gasoline Stations	Gasoline Stations with Convenience Stores	0.1070095

#	PM2_5	Cancer Risk {expression/expr0}	Chronic Hazard Index {expression/expr1}	PM2.5 {expression/expr2}	Count
1	91.6023872	4.825	0.009	91.602	1
2	0.0014333	1.139	0	0.001	1
3	0.0000000	22.344	0.107	*No Data*	1

NOTE: A larger buffer than 1000 feet may be warranted depending on proximity to significant sources.

Facility#	FacilityName	Renewed	ComponentType	ComponentSubType	Number of Devices	Pollutant_ID	PollutantName	lb/day	tpy	tpy	Particulate Multiplier	PM2.5 lbs/day
		This source needs to be modeled										
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	41	Benzene	0.000101	1.84E-05		0.000552
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	124	Formaldehyde	0.003598	0.000657		0.019713
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	293	Toluene	0.000163	2.98E-05		0.000894
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	990	Organics (part not spec elsewhere) -- ir	0.283976	0.051826		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	1990	Particulates	0.143907	0.026263	1	0.788529
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	2030	Nitrous Oxide (N2O)	0.011081	0.002022		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	2990	Nitrogen Oxides (NOx)	4.796886	0.875432		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	3990	Sulfur Dioxide (SO2)	0.027258	0.004975		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	4990	Carbon Monoxide (CO)	0.815471	0.148823		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	6960	Carbon Dioxide, non-biogenic CO2	5875.044	1072.196		
5582	Eggo Company	12/7/2021	Combustion	Boiler/Heater	Small Boiler	2	6970	Methane (CH4)	0.091141	0.016633		
		This source can be screened										
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	41	Benzene	9.85E-05	1.80E-05		0.00054
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	124	Formaldehyde	8.15E-06	1.49E-06		4.47E-05
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	990	Organics (part not spec elsewhere) -- ir	0.004759	0.000868		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1030	Arsenic (all)	8.58E-08	1.57E-08		4.7E-07
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1040	Beryllium (all) pollutant	5.03E-08	9.18E-09		2.76E-07
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1070	Cadmium	2.15E-07	3.92E-08		1.18E-06
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1095	Chromium (hexavalent)	4.44E-09	8.10E-10		2.43E-08
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1140	Lead (all) pollutant	1.82E-07	3.32E-08		9.97E-07
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1160	Manganese	2.86E-07	5.21E-08		1.56E-06
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1180	Nickel pollutant	3.47E-06	6.33E-07		1.9E-05
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1190	Mercury (all) pollutant	6.07E-08	1.11E-08		3.32E-07
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1350	Diesel Engine Exhaust Particulate Matt	0.000947	0.000173		0.005188
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	1840	PAHs (non-speciated)	4.53E-07	8.26E-08		2.48E-06
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	2030	Nitrous Oxide (N2O)	2.64E-05	4.82E-06		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	2990	Nitrogen Oxides (NOx)	0.069386	0.012663		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	3990	Sulfur Dioxide (SO2)	3.22E-05	5.87E-06		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	4990	Carbon Monoxide (CO)	0.01509	0.002754		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	6960	Carbon Dioxide, non-biogenic CO2	3.300361	0.602316		
5582	Eggo Company	12/7/2021	Combustion	Internal Combustion Engine	Emergency Standby	1	6970	Methane (CH4)	0.000132	2.41E-05		
		This source can be screened										
5582	Eggo Company	12/7/2021	Food & Agricultural Process	Cleaning		1	990	Organics (part not spec elsewhere) -- ir	2.74E-07	5.00E-08		
5582	Eggo Company	12/7/2021	Food & Agricultural Process	Material Handling	Conveyors	4	1990	Particulates	0.01247	0.002276	0.14	0.009566
		This source does not have TACs or PM										
5582	Eggo Company	12/7/2021	Solvent	Other Solvent Usage		5	105	Ethyl alcohol	0	0		
5582	Eggo Company	12/7/2021	Solvent	Other Solvent Usage		5	690	Propylene glycol, 1,2-	0	0		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	5	105	Ethyl alcohol	0.217804	0.039749		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	5	157	Isopropyl alcohol	4.656331	0.84978		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	1	201	Organic liquid -other/not spec	0	0		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	1	454	Acetic acid	0.750308	0.136931		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	1	502	Water/organics mixture	0.006845	0.001249		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	1	664	Ethanolamine	0.665791	0.121507		
5582	Eggo Company	12/7/2021	Solvent	Solvent Cleaning	Wipe Cleaning	2	990	Organics (part not spec elsewhere) -- ir	15.50061	2.828861		
		This source does not have TACs or PM										
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	179	Methyl alcohol	0.376241	0.068664		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	201	Organic liquid -other/not spec	0	0		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	315	Distillate oil	0	0		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	455	Acetone	0	0		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	561	Ethylene glycol	0.056181	0.010253		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	578	Diethylene glycol monobutyl ether	0.056181	0.010253		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	579	Propylene glycol monomethyl ether	0	0		
5582	Eggo Company	12/7/2021	Surface Coating	Graphic Arts Printing Operation	Permitted Graphic Arts Operation	1	700	Isobutyl isobutyrate	0	0		
		This source does not have TACs or PM										
5582	Eggo Company	12/7/2021	Tank	Fixed Roof Tank		2	351	Cooking oil	0.204562	0.037333		
5582	Eggo Company	12/7/2021	Tank	Fixed Roof Tank		2	813	Aqueous cleaning solution	0.041004	0.007483		

PM PROFILE NUMBER	PM PROFILE NAME	WEIGHT FRACTION OF PM2.5/TPM	WEIGHT FRACTION OF PM10/TPM
110	LIQUID MATERIAL COMBUSTION	0.967	0.976
111	FUEL COMBUSTION-RESIDUAL	0.76	0.87
112	FUEL COMBUSTION-DISTILLATE	0.967	0.976
113	UTILITY BOILERS-RESIDUAL	0.953	0.97
114	STAT. I.C. ENGINE-DIST/DIESEL	0.967	0.976
115	STAT. I.C. ENGINE-GASOLINE	0.992	0.994
116	STAT. I.C. ENGINE-DIESEL	0.937	0.96
117	VEHICULAR SOURCES-GASOLINE	0.992	0.994
118	VEHICULAR SOURCES-DIESEL	0.937	0.96
119	MARINE VESSELS-LIQUID FUEL	0.937	0.96
120	GASEOUS MATERIAL COMBUSTION	1	1
121	RESIDENTIAL-NATURAL GAS	1	1
122	RESIDENTIAL FUEL COMBUSTION-NATURAL GAS	1	1
123	STAT. I.C.ENGINE-GAS	0.992	0.994
125	PETROLEUM HEATERS-GAS	0.93	0.95
130	SOLID MATERIAL COMBUSTION	0.927	0.997
131	COAL/COKE COMBUSTION	0.15	0.4
132	STAT. I.C. ENGINE-SOLID FUEL	0.927	0.997
133	WOOD WASTE COMBUSTION	0.927	0.997
134	OTHER WASTE COMBUSTION	0.927	0.997
135	PLANNED/UNPLNND FOREST FIRES	0.85	0.88
136	AGRICULTURAL BURNING	0.85	0.88
137	UNPLANNED STRUCTURAL FIRES	0.914	0.98
138	FIREPLACES	0.87	0.92
141	AIRCRAFT-JET FUEL	0.967	0.976
151	ORCHARD HEATERS	0.967	0.976
161	INCINERATION-LIQUID FUEL	0.967	0.976
162	INCINERATION-GASEOUS FUEL	1	1
163	INCINERATION-SOLID FUEL	0.2	0.3
200	EVAPORATION	0.925	0.96
220	COATING MATERIAL EVAPORATION	0.925	0.96
222	PAINT APPLICATION-OIL BASED	0.925	0.96
223	PAINT APPLICATION-WATER BASED	0.62	0.68
311	CHEMICAL MANUFACTURING	0.89	0.9
312	CHEMICAL FERTILIZER-UREA	0.95	0.96
321	AGRICULTURAL TILLAGE DUST	0.1	0.45
322	LIVESTOCK DUST	0.06	0.48
324	FEED AND GRAIN OPERATIONS	0.01	0.29
325	GRAIN DRYING	0.4	0.54
327	COFFEE ROASTING	0.61	0.62
328	COTTON GINNING	0.08	0.62
331	PETROLEUM REFINING	0.555	0.61
341	ASPHALT ROOFING MANUFACTURE	0.945	0.98
342	ASPHALTIC CONCRETE BATCH PLANT	0.333	0.4
343	CEMENT PRODUCTION	0.62	0.92
344	LIME MANUFACTURING	0.117	0.3
345	CALCINATION OF GYPSUM	0.495	0.88
346	CLAY AND RELATED PRODUCTS MFG.	0.513	0.56
348	GLASS MELTING FURNACE	0.963	0.98
349	FIBERGLASS FORMING LINE	0.992	0.994
351	STEEL HEAT TREATNG-SALT QUENCH	0.86	0.96
352	STEEL SINTER PLANT	0.97	0.98
353	STEEL ABRASIVE BLASTING	0.79	0.86
354	STEEL OPEN HEARTH FURNACE	0.93	0.98
355	BASIC OXYGEN FURNACE-STEEL	1	1
356	ELECTRIC ARC FURNACE	0.6	0.83
358	ALUMINUM FOUNDRY	0.903	0.95
361	WOOD OPERATION-SANDING	0.885	0.92
362	WOOD OPERATION-RESAWING	0.283	0.4
365	PULP AND PAPER MILLS	0.76	1
371	MINERAL PROCESS LOSS	0.075	0.5
373	ROCK CRUSHERS	0.075	0.1
374	ROCK SCREENING AND HANDLING	0.075	0.5
381	LANDFILL DUST	0.378	0.55
391	ROAD AND BLDG. CONSTRUCTN DUST	0.37	0.64
393	PAVED ROAD DUST	0.08	0.46
394	UNPAVED ROAD DUST	0.13	0.61
396	TIRE WEAR	0.32	0.4
397	TIRE WEAR (REPLACED BY 472)	0.25	1
398	BRAKE WEAR (REPLACED BY 473)	0.42	0.98
399	GASOLINE VEHICLES-NO CATALYST	0.68	0.9
400	GASOLINE VEHICLES-CATALYST	0.9	0.97
401	CHROME: HEXAVALENT CHROMIUM	1	1
402	HEXAVALENT, TRIVALENT CHROMIUM	1	1
403	CADMIUM	1	1
404	ASBESTOS	0.5	0.5
411	WINDBLOWN DUST-AGRICULTURAL	0.1	0.5
412	WINDBLOWN DUST-UNPAVED AREAS	0.12	0.5
415	UNPAVED RD DUST (BEFORE 1997)	0.126	0.5943
416	WINDBLOWN DUST-UNPAVED RD/AREA	0.0786	0.5943
417	AGRICULTURAL TILLING DUST	0.0681	0.4543
418	WINDBLOWN DUST - AGRIC. LANDS	0.0786	0.4543
419	WINDBLOWN DUST - DESERT LANDS	0.1131	0.5937
420	CONSTRUCTION DUST	0.0489	0.4893
421	LANDFILL DUST	0.0734	0.4893
422	PAVED ROAD DUST (BEFORE 1997)	0.0772	0.4572
423	LIVESTOCK OPERATIONS DUST	0.055	0.4818
424	FIREPLACES AND WOODSTOVES	0.9001	0.935
425	DIESEL VEHICLE EXHAUST	0.92	1
430	AGRIC. BURNING - FIELD CROPS	0.9379	0.9835
431	RICE STRAW BURNING	0.9186	0.9758
432	WHEAT STRAW BURNING	0.9334	0.9834
433	BARLEY STRAW BURNING	0.956	0.9899
434	CORN RESIDUE BURNING	0.9438	0.985
440	WEED ABATEMENT BURNING	0.9379	0.9835
441	RANGE IMPROVEMENT BURNING	0.9316	0.9825
450	ORCHARD PRUNINGS BURNING	0.9252	0.9814
451	ALMOND PRUNINGS BURNING	0.9303	0.9829
452	WALNUT PRUNINGS BURNING	0.9202	0.9799
460	GRASS/WOODLAND FIRES	0.9316	0.9825
461	OPEN BURNING	0.9316	0.9825
462	WASTE BURNING	0.9316	0.9825
463	FOREST MANAGEMENT BURNING	0.8544	0.961
464	TIMBER AND BRUSH FIRES	0.8544	0.961
465	PINE SLASH BURNING	0.8672	0.9573
466	DOUGLAS FIR SLASH BURNING	0.8417	0.9646
470	UNPAVD RD DUST -1997 AND AFTER	0.0594	0.5943
471	PAVED RD DUST -1997 AND AFTER	0.0686	0.4572
472	TIRE WEAR	0.25	1
473	BRAKE WEAR	0.42	0.98
501	COMMRCL CHARBROLNG (IMPROVE)	1	1
502	COOKING (IMPROVE)	1	1
503	COMMRCL CHARBROILING (NIOSH)	1	1
504	COOKING (NIOSH)	1	1
900	UNSPECIFIED	0.42	0.7

1101	GAS-FIRED BOILERS	1	1
1102	GAS-FIRED PROCESS HEATERS	1	1
1103	GAS-FIRED COMBINED CYCLE AND COGENERATION PLANTS	0.992	0.994
1104	OIL-FIRED BOILERS (RESIDUAL)	0.76	0.87
1105	BACKUP GENERATOR DIESEL ENGINES	0.951	0.994
1191	MARINE VESSELS-HFO (2.5PCT S)	0.937	0.96
1192	MARINE VESSELS-HFO (1.0PCT S)	0.937	0.96
1193	MARINE VESSELS-BLEND-1.0PCT S	0.92	1
1411	Aircraft-Jet Fuel (1639 ppm S)	0.967	0.976
1412	Aircraft-Jet Fuel (130-550 ppm S)	0.967	0.976
1413	Aircraft-Jet Fuel (CFM56-3B)	0.967	0.976
1414	Aircraft-Jet Fuel (RB211)	0.967	0.976
2201	OIL-BASED SURFACE COATING	0.925	0.96
2202	WATER-BASED SURFACE COATING	0.62	0.68
2203	COATING MATERIAL EVAPORATION	0.925	0.96
2204	EVAPORATION	0.925	0.96
3282	COTTON GINNING (2015 UPDATE)	0.0188	0.3255
3421	ASPHALT CONCRETE BATCH MIX PLANT (UNCONTROLLED)	0.0084	0.1406
3422	ASPHALT CONCRETE BATCH MIX PLANT (CONTROLLED)	0.332	0.392
3423	ASPHALT CONCRETE DRUM MIX PLANT (UNCONTROLLED)	0.0536	0.2286
3424	ASPHALT CONCRETE DRUM MIX PLANT (CONTROLLED)	0.2071	0.2786
3431	CONCRETE BATCHING	0.06	0.4
4001	GAS. VEHICLE W/ CATLTC CONVRTR	0.822	0.894
4002	GAS. VEHCL W/0 CATLTC CONVRTR	0.917	0.961
4003	SMKNG GSLN VEHICLE-HIGH EMTTER	0.935	0.971
4251	MARINE VESSELS - MGO (0.1 PCT S)	0.92	1
4252	MARINE VESSELS - MGO (0.3 PCT S)	0.92	1
6001	2000 HD DIESEL TRUCK-IDLE	0.951	0.994
6002	2000 HD DIESEL TRUCK-CRUISE	0.951	0.994
6003	2000 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6004	2000 SCHOOL BUS-IDLE	0.951	0.994
6005	2000 SCHOOL BUS-TRANSIENT	0.951	0.994
6006	2000 TRANSIT BUS-IDLE	0.951	0.994
6007	2000 TRANSIT BUS-TRANSIENT	0.951	0.994
6011	2001 HD DIESEL TRUCK-IDLE	0.951	0.994
6012	2001 HD DIESEL TRUCK-CRUISE	0.951	0.994
6013	2001 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6014	2001 SCHOOL BUS-IDLE	0.951	0.994
6015	2001 SCHOOL BUS-TRANSIENT	0.951	0.994
6016	2001 TRANSIT BUS-IDLE	0.951	0.994
6017	2001 TRANSIT BUS-TRANSIENT	0.951	0.994
6021	2002 HD DIESEL TRUCK-IDLE	0.951	0.994
6022	2002 HD DIESEL TRUCK-CRUISE	0.951	0.994
6023	2002 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6024	2002 SCHOOL BUS-IDLE	0.951	0.994
6025	2002 SCHOOL BUS-TRANSIENT	0.951	0.994
6026	2002 TRANSIT BUS-IDLE	0.951	0.994
6027	2002 TRANSIT BUS-TRANSIENT	0.951	0.994
6031	2003 HD DIESEL TRUCK-IDLE	0.951	0.994
6032	2003 HD DIESEL TRUCK-CRUISE	0.951	0.994
6033	2003 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6034	2003 SCHOOL BUS-IDLE	0.951	0.994
6035	2003 SCHOOL BUS-TRANSIENT	0.951	0.994
6036	2003 TRANSIT BUS-IDLE	0.951	0.994
6037	2003 TRANSIT BUS-TRANSIENT	0.951	0.994
6041	2004 HD DIESEL TRUCK-IDLE	0.951	0.994
6042	2004 HD DIESEL TRUCK-CRUISE	0.951	0.994
6043	2004 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6044	2004 SCHOOL BUS-IDLE	0.951	0.994
6045	2004 SCHOOL BUS-TRANSIENT	0.951	0.994
6046	2004 TRANSIT BUS-IDLE	0.951	0.994
6047	2004 TRANSIT BUS-TRANSIENT	0.951	0.994
6051	2005 HD DIESEL TRUCK-IDLE	0.951	0.994
6052	2005 HD DIESEL TRUCK-CRUISE	0.951	0.994
6053	2005 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6054	2005 SCHOOL BUS-IDLE	0.951	0.994
6055	2005 SCHOOL BUS-TRANSIENT	0.951	0.994
6056	2005 TRANSIT BUS-IDLE	0.951	0.994
6057	2005 TRANSIT BUS-TRANSIENT	0.951	0.994
6061	2006 HD DIESEL TRUCK-IDLE	0.951	0.994
6062	2006 HD DIESEL TRUCK-CRUISE	0.951	0.994
6063	2006 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6064	2006 SCHOOL BUS-IDLE	0.951	0.994
6065	2006 SCHOOL BUS-TRANSIENT	0.951	0.994
6066	2006 TRANSIT BUS-IDLE	0.951	0.994
6067	2006 TRANSIT BUS-TRANSIENT	0.951	0.994
6071	2007 HD DIESEL TRUCK-IDLE	0.951	0.994
6072	2007 HD DIESEL TRUCK-CRUISE	0.951	0.994
6073	2007 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6074	2007 SCHOOL BUS-IDLE	0.951	0.994
6075	2007 SCHOOL BUS-TRANSIENT	0.951	0.994
6076	2007 TRANSIT BUS-IDLE	0.951	0.994
6077	2007 TRANSIT BUS-TRANSIENT	0.951	0.994
6081	2008 HD DIESEL TRUCK-IDLE	0.951	0.994
6082	2008 HD DIESEL TRUCK-CRUISE	0.951	0.994
6083	2008 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6084	2008 SCHOOL BUS-IDLE	0.951	0.994
6085	2008 SCHOOL BUS-TRANSIENT	0.951	0.994
6086	2008 TRANSIT BUS-IDLE	0.951	0.994
6087	2008 TRANSIT BUS-TRANSIENT	0.951	0.994
6091	2009 HD DIESEL TRUCK-IDLE	0.951	0.994
6092	2009 HD DIESEL TRUCK-CRUISE	0.951	0.994
6093	2009 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6094	2009 SCHOOL BUS-IDLE	0.951	0.994
6095	2009 SCHOOL BUS-TRANSIENT	0.951	0.994
6096	2009 TRANSIT BUS-IDLE	0.951	0.994
6097	2009 TRANSIT BUS-TRANSIENT	0.951	0.994
6099	2009 OFFROAD DIESEL VEHL EXST	0.951	0.994
6101	2010 HD DIESEL TRUCK-IDLE	0.951	0.994
6102	2010 HD DIESEL TRUCK-CRUISE	0.951	0.994
6103	2010 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6104	2010 SCHOOL BUS-IDLE	0.951	0.994
6105	2010 SCHOOL BUS-TRANSIENT	0.951	0.994
6106	2010 TRANSIT BUS-IDLE	0.951	0.994
6107	2010 TRANSIT BUS-TRANSIENT	0.951	0.994
6109	2010 OFFROAD DIESEL VEHL EXST	0.951	0.994
6111	2011 HD DIESEL TRUCK-IDLE	0.951	0.994
6112	2011 HD DIESEL TRUCK-CRUISE	0.951	0.994
6113	2011 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6114	2011 SCHOOL BUS-IDLE	0.951	0.994
6115	2011 SCHOOL BUS-TRANSIENT	0.951	0.994
6116	2011 TRANSIT BUS-IDLE	0.951	0.994
6117	2011 TRANSIT BUS-TRANSIENT	0.951	0.994
6119	2011 OFFROAD DIESEL VEHL EXST	0.951	0.994
6121	2012 HD DIESEL TRUCK-IDLE	0.951	0.994
6122	2012 HD DIESEL TRUCK-CRUISE	0.951	0.994

6123	2012 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6124	2012 SCHOOL BUS-IDLE	0.951	0.994
6125	2012 SCHOOL BUS-TRANSIENT	0.951	0.994
6126	2012 TRANSIT BUS-IDLE	0.951	0.994
6127	2012 TRANSIT BUS-TRANSIENT	0.951	0.994
6129	2012 OFFROAD DIESEL VEHL EXST	0.951	0.994
6131	2013 HD DIESEL TRUCK-IDLE	0.951	0.994
6132	2013 HD DIESEL TRUCK-CRUISE	0.951	0.994
6133	2013 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6134	2013 SCHOOL BUS-IDLE	0.951	0.994
6135	2013 SCHOOL BUS-TRANSIENT	0.951	0.994
6136	2013 TRANSIT BUS-IDLE	0.951	0.994
6137	2013 TRANSIT BUS-TRANSIENT	0.951	0.994
6139	2013 OFFROAD DIESEL VEHL EXST	0.951	0.994
6141	2014 HD DIESEL TRUCK-IDLE	0.951	0.994
6142	2014 HD DIESEL TRUCK-CRUISE	0.951	0.994
6143	2014 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6144	2014 SCHOOL BUS-IDLE	0.951	0.994
6145	2014 SCHOOL BUS-TRANSIENT	0.951	0.994
6146	2014 TRANSIT BUS-IDLE	0.951	0.994
6147	2014 TRANSIT BUS-TRANSIENT	0.951	0.994
6149	2014 OFFROAD DIESEL VEHL EXST	0.951	0.994
6151	2015 HD DIESEL TRUCK-IDLE	0.951	0.994
6152	2015 HD DIESEL TRUCK-CRUISE	0.951	0.994
6153	2015 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6154	2015 SCHOOL BUS-IDLE	0.951	0.994
6155	2015 SCHOOL BUS-TRANSIENT	0.951	0.994
6156	2015 TRANSIT BUS-IDLE	0.951	0.994
6157	2015 TRANSIT BUS-TRANSIENT	0.951	0.994
6159	2015 OFFROAD DIESEL VEHL EXST	0.951	0.994
6161	2016 HD DIESEL TRUCK-IDLE	0.951	0.994
6162	2016 HD DIESEL TRUCK-CRUISE	0.951	0.994
6163	2016 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6164	2016 SCHOOL BUS-IDLE	0.951	0.994
6165	2016 SCHOOL BUS-TRANSIENT	0.951	0.994
6166	2016 TRANSIT BUS-IDLE	0.951	0.994
6167	2016 TRANSIT BUS-TRANSIENT	0.951	0.994
6169	2016 OFFROAD DIESEL VEHL EXST	0.951	0.994
6171	2017 HD DIESEL TRUCK-IDLE	0.951	0.994
6172	2017 HD DIESEL TRUCK-CRUISE	0.951	0.994
6173	2017 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6174	2017 SCHOOL BUS-IDLE	0.951	0.994
6175	2017 SCHOOL BUS-TRANSIENT	0.951	0.994
6176	2017 TRANSIT BUS-IDLE	0.951	0.994
6177	2017 TRANSIT BUS-TRANSIENT	0.951	0.994
6179	2017 OFFROAD DIESEL VEHL EXST	0.951	0.994
6181	2018 HD DIESEL TRUCK-IDLE	0.951	0.994
6182	2018 HD DIESEL TRUCK-CRUISE	0.951	0.994
6183	2018 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6184	2018 SCHOOL BUS-IDLE	0.951	0.994
6185	2018 SCHOOL BUS-TRANSIENT	0.951	0.994
6186	2018 TRANSIT BUS-IDLE	0.951	0.994
6187	2018 TRANSIT BUS-TRANSIENT	0.951	0.994
6189	2018 OFFROAD DIESEL VEHL EXST	0.951	0.994
6191	2019 HD DIESEL TRUCK-IDLE	0.951	0.994
6192	2019 HD DIESEL TRUCK-CRUISE	0.951	0.994
6193	2019 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6194	2019 SCHOOL BUS-IDLE	0.951	0.994
6195	2019 SCHOOL BUS-TRANSIENT	0.951	0.994
6196	2019 TRANSIT BUS-IDLE	0.951	0.994
6197	2019 TRANSIT BUS-TRANSIENT	0.951	0.994
6199	2019 OFFROAD DIESEL VEHL EXST	0.951	0.994
6201	2020 HD DIESEL TRUCK-IDLE	0.951	0.994
6202	2020 HD DIESEL TRUCK-CRUISE	0.951	0.994
6203	2020 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6204	2020 SCHOOL BUS-IDLE	0.951	0.994
6205	2020 SCHOOL BUS-TRANSIENT	0.951	0.994
6206	2020 TRANSIT BUS-IDLE	0.951	0.994
6207	2020 TRANSIT BUS-TRANSIENT	0.951	0.994
6209	2020 OFFROAD DIESEL VEHL EXST	0.951	0.994
6211	2021 HD DIESEL TRUCK-IDLE	0.951	0.994
6212	2021 HD DIESEL TRUCK-CRUISE	0.951	0.994
6213	2021 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6214	2021 SCHOOL BUS-IDLE	0.951	0.994
6215	2021 SCHOOL BUS-TRANSIENT	0.951	0.994
6216	2021 TRANSIT BUS-IDLE	0.951	0.994
6217	2021 TRANSIT BUS-TRANSIENT	0.951	0.994
6219	2021 OFFROAD DIESEL VEHL EXST	0.951	0.994
6221	2022 HD DIESEL TRUCK-IDLE	0.951	0.994
6222	2022 HD DIESEL TRUCK-CRUISE	0.951	0.994
6223	2022 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6224	2022 SCHOOL BUS-IDLE	0.951	0.994
6225	2022 SCHOOL BUS-TRANSIENT	0.951	0.994
6226	2022 TRANSIT BUS-IDLE	0.951	0.994
6227	2022 TRANSIT BUS-TRANSIENT	0.951	0.994
6229	2022 OFFROAD DIESEL VEHL EXST	0.951	0.994
6231	2023 HD DIESEL TRUCK-IDLE	0.951	0.994
6232	2023 HD DIESEL TRUCK-CRUISE	0.951	0.994
6233	2023 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6234	2023 SCHOOL BUS-IDLE	0.951	0.994
6235	2023 SCHOOL BUS-TRANSIENT	0.951	0.994
6236	2023 TRANSIT BUS-IDLE	0.951	0.994
6237	2023 TRANSIT BUS-TRANSIENT	0.951	0.994
6239	2023 OFFROAD DIESEL VEHL EXST	0.951	0.994
6241	2024 HD DIESEL TRUCK-IDLE	0.951	0.994
6242	2024 HD DIESEL TRUCK-CRUISE	0.951	0.994
6243	2024 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6244	2024 SCHOOL BUS-IDLE	0.951	0.994
6245	2024 SCHOOL BUS-TRANSIENT	0.951	0.994
6246	2024 TRANSIT BUS-IDLE	0.951	0.994
6247	2024 TRANSIT BUS-TRANSIENT	0.951	0.994
6249	2024 OFFROAD DIESEL VEHL EXST	0.951	0.994
6251	2025 HD DIESEL TRUCK-IDLE	0.951	0.994
6252	2025 HD DIESEL TRUCK-CRUISE	0.951	0.994
6253	2025 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6254	2025 SCHOOL BUS-IDLE	0.951	0.994
6255	2025 SCHOOL BUS-TRANSIENT	0.951	0.994
6256	2025 TRANSIT BUS-IDLE	0.951	0.994
6257	2025 TRANSIT BUS-TRANSIENT	0.951	0.994
6259	2025 OFFROAD DIESEL VEHL EXST	0.951	0.994
6261	2026 HD DIESEL TRUCK-IDLE	0.951	0.994
6262	2026 HD DIESEL TRUCK-CRUISE	0.951	0.994
6263	2026 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6264	2026 SCHOOL BUS-IDLE	0.951	0.994
6265	2026 SCHOOL BUS-TRANSIENT	0.951	0.994
6266	2026 TRANSIT BUS-IDLE	0.951	0.994

6267	2026 TRANSIT BUS-TRANSIENT	0.951	0.994
6269	2026 OFFROAD DIESEL VEHL EXST	0.951	0.994
6271	2027 HD DIESEL TRUCK-IDLE	0.951	0.994
6272	2027 HD DIESEL TRUCK-CRUISE	0.951	0.994
6273	2027 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6274	2027 SCHOOL BUS-IDLE	0.951	0.994
6275	2027 SCHOOL BUS-TRANSIENT	0.951	0.994
6276	2027 TRANSIT BUS-IDLE	0.951	0.994
6277	2027 TRANSIT BUS-TRANSIENT	0.951	0.994
6279	2027 OFFROAD DIESEL VEHL EXST	0.951	0.994
6281	2028 HD DIESEL TRUCK-IDLE	0.951	0.994
6282	2028 HD DIESEL TRUCK-CRUISE	0.951	0.994
6283	2028 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6284	2028 SCHOOL BUS-IDLE	0.951	0.994
6285	2028 SCHOOL BUS-TRANSIENT	0.951	0.994
6286	2028 TRANSIT BUS-IDLE	0.951	0.994
6287	2028 TRANSIT BUS-TRANSIENT	0.951	0.994
6289	2028 OFFROAD DIESEL VEHL EXST	0.951	0.994
6291	2029 HD DIESEL TRUCK-IDLE	0.951	0.994
6292	2029 HD DIESEL TRUCK-CRUISE	0.951	0.994
6293	2029 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6294	2029 SCHOOL BUS-IDLE	0.951	0.994
6295	2029 SCHOOL BUS-TRANSIENT	0.951	0.994
6296	2029 TRANSIT BUS-IDLE	0.951	0.994
6297	2029 TRANSIT BUS-TRANSIENT	0.951	0.994
6299	2029 OFFROAD DIESEL VEHL EXST	0.951	0.994
6301	2030 HD DIESEL TRUCK-IDLE	0.951	0.994
6302	2030 HD DIESEL TRUCK-CRUISE	0.951	0.994
6303	2030 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6304	2030 SCHOOL BUS-IDLE	0.951	0.994
6305	2030 SCHOOL BUS-TRANSIENT	0.951	0.994
6306	2030 TRANSIT BUS-IDLE	0.951	0.994
6307	2030 TRANSIT BUS-TRANSIENT	0.951	0.994
6311	2031 HD DIESEL TRUCK-IDLE	0.951	0.994
6312	2031 HD DIESEL TRUCK-CRUISE	0.951	0.994
6313	2031 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6314	2031 SCHOOL BUS-IDLE	0.951	0.994
6315	2031 SCHOOL BUS-TRANSIENT	0.951	0.994
6316	2031 TRANSIT BUS-IDLE	0.951	0.994
6317	2031 TRANSIT BUS-TRANSIENT	0.951	0.994
6321	2032 HD DIESEL TRUCK-IDLE	0.951	0.994
6322	2032 HD DIESEL TRUCK-CRUISE	0.951	0.994
6323	2032 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6324	2032 SCHOOL BUS-IDLE	0.951	0.994
6325	2032 SCHOOL BUS-TRANSIENT	0.951	0.994
6326	2032 TRANSIT BUS-IDLE	0.951	0.994
6327	2032 TRANSIT BUS-TRANSIENT	0.951	0.994
6331	2033 HD DIESEL TRUCK-IDLE	0.951	0.994
6332	2033 HD DIESEL TRUCK-CRUISE	0.951	0.994
6333	2033 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6334	2033 SCHOOL BUS-IDLE	0.951	0.994
6335	2033 SCHOOL BUS-TRANSIENT	0.951	0.994
6336	2033 TRANSIT BUS-IDLE	0.951	0.994
6337	2033 TRANSIT BUS-TRANSIENT	0.951	0.994
6341	2034 HD DIESEL TRUCK-IDLE	0.951	0.994
6342	2034 HD DIESEL TRUCK-CRUISE	0.951	0.994
6343	2034 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6344	2034 SCHOOL BUS-IDLE	0.951	0.994
6345	2034 SCHOOL BUS-TRANSIENT	0.951	0.994
6346	2034 TRANSIT BUS-IDLE	0.951	0.994
6347	2034 TRANSIT BUS-TRANSIENT	0.951	0.994
6351	2035 HD DIESEL TRUCK-IDLE	0.951	0.994
6352	2035 HD DIESEL TRUCK-CRUISE	0.951	0.994
6353	2035 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6354	2035 SCHOOL BUS-IDLE	0.951	0.994
6355	2035 SCHOOL BUS-TRANSIENT	0.951	0.994
6356	2035 TRANSIT BUS-IDLE	0.951	0.994
6357	2035 TRANSIT BUS-TRANSIENT	0.951	0.994
6901	1990 HD DIESEL TRUCK-IDLE	0.951	0.994
6902	1990 HD DIESEL TRUCK-CRUISE	0.951	0.994
6903	1990 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6904	1990 SCHOOL BUS-IDLE	0.951	0.994
6905	1990 SCHOOL BUS-TRANSIENT	0.951	0.994
6906	1990 TRANSIT BUS-IDLE	0.951	0.994
6907	1990 TRANSIT BUS-TRANSIENT	0.951	0.994
6911	1991 HD DIESEL TRUCK-IDLE	0.951	0.994
6912	1991 HD DIESEL TRUCK-CRUISE	0.951	0.994
6913	1991 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6914	1991 SCHOOL BUS-IDLE	0.951	0.994
6915	1991 SCHOOL BUS-TRANSIENT	0.951	0.994
6916	1991 TRANSIT BUS-IDLE	0.951	0.994
6917	1991 TRANSIT BUS-TRANSIENT	0.951	0.994
6921	1992 HD DIESEL TRUCK-IDLE	0.951	0.994
6922	1992 HD DIESEL TRUCK-CRUISE	0.951	0.994
6923	1992 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6924	1992 SCHOOL BUS-IDLE	0.951	0.994
6925	1992 SCHOOL BUS-TRANSIENT	0.951	0.994
6926	1992 TRANSIT BUS-IDLE	0.951	0.994
6927	1992 TRANSIT BUS-TRANSIENT	0.951	0.994
6931	1993 HD DIESEL TRUCK-IDLE	0.951	0.994
6932	1993 HD DIESEL TRUCK-CRUISE	0.951	0.994
6933	1993 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6934	1993 SCHOOL BUS-IDLE	0.951	0.994
6935	1993 SCHOOL BUS-TRANSIENT	0.951	0.994
6936	1993 TRANSIT BUS-IDLE	0.951	0.994
6937	1993 TRANSIT BUS-TRANSIENT	0.951	0.994
6941	1994 HD DIESEL TRUCK-IDLE	0.951	0.994
6942	1994 HD DIESEL TRUCK-CRUISE	0.951	0.994
6943	1994 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6944	1994 SCHOOL BUS-IDLE	0.951	0.994
6945	1994 SCHOOL BUS-TRANSIENT	0.951	0.994
6946	1994 TRANSIT BUS-IDLE	0.951	0.994
6947	1994 TRANSIT BUS-TRANSIENT	0.951	0.994
6951	1995 HD DIESEL TRUCK-IDLE	0.951	0.994
6952	1995 HD DIESEL TRUCK-CRUISE	0.951	0.994
6953	1995 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6954	1995 SCHOOL BUS-IDLE	0.951	0.994
6955	1995 SCHOOL BUS-TRANSIENT	0.951	0.994
6956	1995 TRANSIT BUS-IDLE	0.951	0.994
6957	1995 TRANSIT BUS-TRANSIENT	0.951	0.994
6961	1996 HD DIESEL TRUCK-IDLE	0.951	0.994
6962	1996 HD DIESEL TRUCK-CRUISE	0.951	0.994
6963	1996 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6964	1996 SCHOOL BUS-IDLE	0.951	0.994
6965	1996 SCHOOL BUS-TRANSIENT	0.951	0.994
6966	1996 TRANSIT BUS-IDLE	0.951	0.994

6967	1996 TRANSIT BUS-TRANSIENT	0.951	0.994
6971	1997 HD DIESEL TRUCK-IDLE	0.951	0.994
6972	1997 HD DIESEL TRUCK-CRUISE	0.951	0.994
6973	1997 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6974	1997 SCHOOL BUS-IDLE	0.951	0.994
6975	1997 SCHOOL BUS-TRANSIENT	0.951	0.994
6976	1997 TRANSIT BUS-IDLE	0.951	0.994
6977	1997 TRANSIT BUS-TRANSIENT	0.951	0.994
6981	1998 HD DIESEL TRUCK-IDLE	0.951	0.994
6982	1998 HD DIESEL TRUCK-CRUISE	0.951	0.994
6983	1998 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6984	1998 SCHOOL BUS-IDLE	0.951	0.994
6985	1998 SCHOOL BUS-TRANSIENT	0.951	0.994
6986	1998 TRANSIT BUS-IDLE	0.951	0.994
6987	1998 TRANSIT BUS-TRANSIENT	0.951	0.994
6991	1999 HD DIESEL TRUCK-IDLE	0.951	0.994
6992	1999 HD DIESEL TRUCK-CRUISE	0.951	0.994
6993	1999 HD DIESEL TRUCK-TRANSIENT	0.951	0.994
6994	1999 SCHOOL BUS-IDLE	0.951	0.994
6995	1999 SCHOOL BUS-TRANSIENT	0.951	0.994
6996	1999 TRANSIT BUS-IDLE	0.951	0.994
6997	1999 TRANSIT BUS-TRANSIENT	0.951	0.994
7101	2010 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7102	2010 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7103	2010 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7104	2010 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7105	2010 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7106	2010 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7107	2010 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7111	2011 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7112	2011 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7113	2011 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7114	2011 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7115	2011 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7116	2011 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7117	2011 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7121	2012 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7122	2012 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7123	2012 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7124	2012 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7125	2012 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7126	2012 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7127	2012 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7131	2013 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7132	2013 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7133	2013 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7134	2013 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7135	2013 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7136	2013 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7137	2013 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7141	2014 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7142	2014 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7143	2014 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7144	2014 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7145	2014 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7146	2014 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7147	2014 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7151	2015 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7152	2015 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7153	2015 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7154	2015 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7155	2015 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7156	2015 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7157	2015 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7161	2016 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7162	2016 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7163	2016 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7164	2016 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7165	2016 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7166	2016 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7167	2016 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7171	2017 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7172	2017 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7173	2017 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7174	2017 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7175	2017 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7176	2017 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7177	2017 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7181	2018 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7182	2018 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7183	2018 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7184	2018 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7185	2018 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7186	2018 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7187	2018 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7191	2019 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7192	2019 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7193	2019 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7194	2019 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7195	2019 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7196	2019 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7197	2019 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7201	2020 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7202	2020 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7203	2020 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7204	2020 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7205	2020 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7206	2020 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7207	2020 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7211	2021 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7212	2021 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7213	2021 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7214	2021 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7215	2021 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7216	2021 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7217	2021 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7221	2022 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7222	2022 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7223	2022 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7224	2022 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7225	2022 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7226	2022 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7227	2022 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7231	2023 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7232	2023 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7233	2023 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994

7234	2023 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7235	2023 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7236	2023 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7237	2023 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7241	2024 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7242	2024 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7243	2024 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7244	2024 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7245	2024 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7246	2024 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7247	2024 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7251	2025 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7252	2025 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7253	2025 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7254	2025 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7255	2025 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7256	2025 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7257	2025 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7261	2026 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7262	2026 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7263	2026 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7264	2026 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7265	2026 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7266	2026 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7267	2026 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7271	2027 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7272	2027 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7273	2027 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7274	2027 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7275	2027 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7276	2027 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7277	2027 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7281	2028 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7282	2028 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7283	2028 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7284	2028 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7285	2028 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7286	2028 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7287	2028 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7291	2029 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7292	2029 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7293	2029 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7294	2029 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7295	2029 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7296	2029 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7297	2029 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7301	2030 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7302	2030 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7303	2030 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7304	2030 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7305	2030 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7306	2030 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7307	2030 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7311	2031 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7312	2031 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7313	2031 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7314	2031 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7315	2031 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7316	2031 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7317	2031 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7321	2032 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7322	2032 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7323	2032 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7324	2032 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7325	2032 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7326	2032 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7327	2032 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7331	2033 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7332	2033 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7333	2033 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7334	2033 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7335	2033 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7336	2033 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7337	2033 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7341	2034 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7342	2034 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7343	2034 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7344	2034 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7345	2034 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7346	2034 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7347	2034 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7351	2035 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7352	2035 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7353	2035 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7354	2035 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7355	2035 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7356	2035 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7357	2035 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7361	2036 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7362	2036 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7363	2036 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7364	2036 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7365	2036 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7366	2036 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7367	2036 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7371	2037 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7372	2037 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7373	2037 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7374	2037 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7375	2037 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7376	2037 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7377	2037 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7381	2038 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7382	2038 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7383	2038 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7384	2038 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7385	2038 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7386	2038 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7387	2038 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7391	2039 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7392	2039 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7393	2039 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7394	2039 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7395	2039 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7396	2039 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7397	2039 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994

7401	2040 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7402	2040 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7403	2040 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7404	2040 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7405	2040 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7406	2040 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7407	2040 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7411	2041 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7412	2041 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7413	2041 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7414	2041 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7415	2041 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7416	2041 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7417	2041 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7421	2042 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7422	2042 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7423	2042 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7424	2042 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7425	2042 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7426	2042 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7427	2042 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7431	2043 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7432	2043 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7433	2043 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7434	2043 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7435	2043 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7436	2043 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7437	2043 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7441	2044 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7442	2044 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7443	2044 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7444	2044 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7445	2044 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7446	2044 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7447	2044 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7451	2045 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7452	2045 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7453	2045 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7454	2045 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7455	2045 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7456	2045 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7457	2045 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7461	2046 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7462	2046 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7463	2046 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7464	2046 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7465	2046 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7466	2046 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7467	2046 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7471	2047 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7472	2047 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7473	2047 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7474	2047 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7475	2047 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7476	2047 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7477	2047 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7481	2048 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7482	2048 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7483	2048 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7484	2048 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7485	2048 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7486	2048 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7487	2048 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7491	2049 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7492	2049 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7493	2049 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7494	2049 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7495	2049 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7496	2049 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7497	2049 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
7501	2050 HEAVY-DUTY DIESEL TRUCK-idle (2016 UPDATE)	0.951	0.994
7502	2050 HEAVY-DUTY DIESEL TRUCK-cruise (2016 UPDATE)	0.951	0.994
7503	2050 HEAVY-DUTY DIESEL TRUCK-transient (2016 UPDATE)	0.951	0.994
7504	2050 SCHOOL BUS-idle (2016 UPDATE)	0.951	0.994
7505	2050 SCHOOL BUS-transient (2016 UPDATE)	0.951	0.994
7506	2050 TRANSIT BUS-idle (2016 UPDATE)	0.951	0.994
7507	2050 TRANSIT BUS-transient (2016 UPDATE)	0.951	0.994
42505	DIESEL VEHICLE EXHAUST (2005)	0.92	1
42514	DIESEL VEHICLE EXHAUST (2014)	0.92	1
90001	EPA AVG: SOLID WASTE	0.13	0.19
90002	EPA AVG: CHEMICAL MANUFACTURNG	0.279	0.505
90003	EPA AVG: FOOD AND AGRICULTURE	0.14	0.49
90004	EPA AVG: STEEL PRODUCTION	0.52	0.6
90006	EPA AVG: METAL MINING - GENRL	0.15	0.51
90007	EPA AVG: PRIMARY METAL PRODCN	0.464	0.644
90008	EPA AVG: SECONDARY METAL PRDCN	0.474	0.633
90010	EPA AVG: GRAY IRON FOUNDRIES	0.835	0.925
90011	EPA AVG: STEEL FOUNDRY - GENRL	0.765	0.86
90013	EPA AVG: MINERAL PRODUCTS	0.33	0.545
90014	EPA AVG: PETROLEUM INDUSTRY	0.396	0.691
90015	EPA AVG: PULP AND PAPER INDUST	0.486	0.608
90016	EPA AVG: INDUSTRIAL MANUFAC.	0.407	0.574
1301	CONTROLLED TIRE COMBUSTION	0.927	0.997
1302	UNCONTROLLED OPEN TIRE FIRE	0.9316	0.9825