APPENDIX D

Air Quality Analysis and Supporting Information

MONTALDO APARTMENTS
19320 SONOMA HIGHWAY 12
CONSTRUCTION EMISSIONS AND HEALTH RISK ASSESSMENT

Sonoma, California

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Introduction

The purpose of this report is to address construction emissions and health risk impacts associated with Montaldo Apartments development located at 19320 Sonoma Highway 12 in Sonoma, California. Air quality impacts from this project would be associated with the demolition of the existing land use and the construction of the new townhomes. Air pollutants associated with construction of the project were estimated using appropriate computer models. In addition, the potential project health risks, and the impacts of existing toxic air contaminant (TAC) sources affecting nearby and proposed sensitive receptors were evaluated. The analysis was conducted following guidance provided by the recently renamed Bay Area Air District (BAAD).[1]

Project Description

The 2.15-acre existing project site is developed with a single-family residence. The project proposes to demolish the existing use and construct an approximately 66,874 square foot (sf) townhome development with a total of 50 units in seven 2- and 3-story residential buildings. A total of 89 parking spaces would be provided, with 71 spaces designated for residents and 18 parking spaces for guests. Resident parking would include 68 garage stalls and 3 carports. Construction is proposed from January 2026 through February 2028.

Setting

The project is located in Sonoma County, which is in the San Francisco Bay Area Air Basin. Ambient air quality standards have been established at both the State and federal level. The Bay Area meets all ambient air quality standards with the exception of ground-level ozone, respirable particulate matter (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 concentrations. 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, reduce 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

[1] Formerly known as the Bay Area Air Quality Management District (BAAQMD), *2022 CEQA Guidelines*, April 2023.

concentrations aggravate respiratory and cardiovascular diseases, reduce lung function, increase mortality (e.g., lung cancer), and result in reduced lung function growth in children.

$PM_{2.5}$ emissions can include TACs. Due to the adverse health effects caused by $PM_{2.5}$ exposure even at low concentrations, BAAD developed health risk thresholds to address exposure to increased $PM_{2.5}$ concentrations caused by a project's emissions.[2]

Toxic Air Contaminants

TACs are a broad class of compounds known to cause morbidity or mortality, often because they cause cancer. TACs are found in ambient air, especially in urban areas, and are caused by manufacturing, 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 complex scientific issue. Some of the chemicals in diesel exhaust, such as benzene and formaldehyde, have been previously identified as TACs by the CARB, and are listed as carcinogens either under the State's Proposition 65 or under the Federal Hazardous Air Pollutants programs. Health risks from TACs are estimated using the Office of Environmental Health Hazard Assessment (OEHHA) risk assessment guidelines, which were published in February of 2015 and incorporated in BAAD's current CEQA guidance.[3]

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, people 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 individuals include residential areas, hospitals, daycare facilities, elder care facilities, and elementary schools. For cancer risk assessments, infants and small children are considered the most sensitive receptors, since they are more susceptible to cancer causing TACs. Therefore, residential locations are assumed to include infants and small children. The closest sensitive receptors to the project site are the adjacent single- and multi-family homes to the east, south, and west. There are also sensitive receptors located in the single- and multi-family residences to the north and northwest. Additional sensitive receptors are located further distances from the project site. This project would introduce new sensitive receptors (i.e., residents) to the area.

[2] BAAD, 2022 CEQA Air Quality Guidelines, Appendix A, p40.
[3] 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.

Bay Area Air District (BAAD)

BAAD 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.

BAAD 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 that would generate emissions. BAAD is responsible for permitting and inspection of stationary sources; enforcement of air quality regulations, including setting fees, levying fines, and enforcement actions; and ensuring that public nuisances, like fugitive dust and odors, are minimized.

BAAD'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.[4] The program examines TAC emissions from stationary sources, area sources, and on-road and off-road mobile sources with an emphasis on diesel exhaust, which is a major contributor to TACs in California. The on-going CARE program 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 plans 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 BAAD as impacted communities. They include Eastern San Francisco, Richmond/San Pablo, Western Alameda, San José, Vallejo, Concord, and Pittsburgh/Antioch. The project site is not within any CARE areas.

Overburdened communities are areas located (i) within a census tract identified by the OEHHA's California Communities Environmental Health Screening Tool (CalEnviroScreen), Version 4.0, as having an overall score at or above the 70th percentile, or (ii) within 1,000 feet of any such census tract.[5] The BAAD has identified several overburdened areas within its boundaries. The project site is not within an overburdened area as the Project site is scored at the 12th percentile on CalEnviroScreen.[6]

[4] See BAAD: https://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program.
[5] See BAAD: https://www.baaqmd.gov/~/media/dotgov/files/rules/reg-2-permits/2021-amendments/documents/20210722_01_appendixd_mapsofoverburdenedcommunities-pdf.pdf?la=en.
[6] OEHAA, CalEnviroScreen 4.0 Maps https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/CalEnviroScreen-4_0/

BAAD CEQA Air Quality Guidelines

In June 2010, BAAD (then known as the Bay Area Air Quality Management District or BAAQMD) adopted thresholds of significance to assist in the review of projects under CEQA. In 2023, BAAD revised the *California Environmental Quality Act* (*CEQA) Air Quality Guidelines* that include significance thresholds to assist in the evaluation of air quality impacts of projects proposed within the Bay Area. The current BAAD 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 criteria air pollutants and TAC emissions as shown in Table 1.[7] Air quality impacts and health risks from projects are considered potentially significant if they exceed these thresholds.

Table 1. BAAD CEQA Significance Thresholds

Criteria Air Pollutant	**Construction Thresholds**			
	Average Daily Emissions (lbs./day)			
ROG	54			
NO_x	54			
PM_{10}	82 (Exhaust)			
$PM_{2.5}$	54 (Exhaust)			
CO	Not Applicable			
Fugitive Dust (PM_{10}/$PM_{2.5}$)	Best Management Practices (BMPs)*			
Health Risks and Hazards	**Single Sources/ Individual Project**		**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.

* BAAD 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 District, 2022

BAAD recommends all projects include a "basic" set of best management practices (BMPs) to manage fugitive dust. Impacts from fugitive dust (i.e., fugitive PM_{10} and $PM_{2.5}$) are considered less than significant if BMPs are implemented and enhanced BMPs are strongly encouraged for construction sites near schools, residential areas, other sensitive land uses, or if air quality impacts were found to be significant.

[7] BAAD, 2023. *2022 CEQA Guidelines*. April.

The "basic" BMPs required of all projects include:

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/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 practicable. Building pads shall be laid as soon as practicable 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 site located 100 feet of 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 be visible to ensure compliance with applicable regulations.

<u>City of Sonoma 2020 General Plan</u>

The City of Sonoma 2020 General Plan includes goals, policies, and implementation measures related to air quality. The following goals, policies, and implementation measures are applicable to the proposed project and this assessment:

Environmental Resources Element

Goal ER-2 Identify, preserve, and enhance important habitat areas and environmental resources.

Applicable Policies

2.9 Require development to avoid potential impacts to wildlife habitat, air quality, and other significant biological resources, or to adequately mitigate such impacts if avoidance is not feasible.

Applicable Implementation Measures

2.9.1 Evaluate applications for new development in terms of their potential to expose sensitive uses to substantial air pollutant concentrations and/or to create or emit objectionable odors.

Goal ER-3 Conserve natural resources to ensure their long-term sustainability.

Applicable Policies

3.2 Encourage construction, building maintenance, landscaping, and transportation practices that promote energy and water conservation and reduce green-house gas emissions.

Applicable Implementation Measures

3.2.1 Implement a sustainability program that includes quantified objectives, standards and incentives for green construction and assistance to local businesses and agricultural operations to institute green practices for construction and land, energy, and water conservation.

Construction Period Emissions

The California Emissions Estimator Model (CalEEMod) Version 2022 was used to estimate emissions from on-site construction activity, construction vehicle trips, and evaporative emissions from equipment and building materials. The project land use types and size were input into the CalEEMod model and the corresponding model output, along with inputs, are included in *Attachment 1*.

CalEEMod Modeling

Land Use Inputs

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

Table 2. Summary of Project Land Use Inputs

Project Land Uses	Size	Units	Square Feet (sf)	Acreage
Condo/Townhome	50	Dwelling Unit	66,874	2.15
Parking Lot	21*	Parking Space	-	
*Includes both guest parking spaces and carports.				

Construction Inputs

CalEEMod computes annual emissions for construction projects 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 and building activities, while off-site activity includes worker, hauling, and vendor traffic. The construction build-out scenario, including the equipment quantities, average hours per day, total number of workdays, and schedule, were based on a blend of information provided by the applicant and CalEEMod default information (see *Attachment 1*). The project applicant estimates the earliest possible start date to be January 2026, and it would be built over a period of approximately 26 months, or 546 construction workdays. The earliest year of full operation was assumed to be 2028.

Construction Truck Traffic Emissions

Construction would produce traffic from workers and trucks coming to and leaving the site. Traffic-related emissions are based on worker and vendor trip estimates produced by CalEEMod and haul trips that were computed based on the estimated amount of demolition material to be exported, provided amount of soil imported and/or exported to the site, and the estimate of concrete and asphalt deliveries to and from the site. CalEEMod provides daily estimates of worker and vendor trips for each applicable phase. Daily haul trips for demolition and grading were developed by CalEEMod using the estimated demolition and provided soil import/export volumes. The number of total concrete/asphalt round haul trips were estimated for the project and converted to daily one-way trips, assuming two trips per delivery. These values are shown in the project construction equipment worksheet 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 unmitigated 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 daily project construction emissions would not exceed the BAAD significance thresholds.

Table 3. Construction Period Emissions

Year	ROG	NOx	PM_{10} Exhaust	$PM_{2.5}$ Exhaust
Construction Emissions Per Year (Tons)				
2026	0.27	0.82	0.04	0.03
2027+2028	0.11	0.24	0.01	0.01
Average Daily Construction Emissions Per Year (pounds/day)				
2026 (261 construction workdays)	2.09	6.28	0.27	0.24
2027+2028 (285 construction workdays)	3.58	1.68	0.05	0.05
BAAD 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.

As previously described, BAAD requires all projects include a "basic" set of 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 their BMPs are implemented during all phases of construction.

Construction Health Risk Impacts

Construction equipment and associated heavy-duty truck traffic generates diesel exhaust and $PM_{2.5}$, which are considered TACs by BAAD. Therefore, health risk impacts from construction activities

were assessed at sensitive receptors using the emissions estimated by CalEEMod. Increased lifetime cancer risk, annual $PM_{2.5}$ concentrations, and Hazard Index (HI) for non-cancer health risks were predicted for the maximum concentration location, or maximally exposed individual (MEI). A dispersion model was used to predict the off-site concentrations resulting from project construction, so that lifetime cancer risks and non-cancer health effects could be evaluated.

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 existing nearby residences, as shown in Figure 1. Residential receptors are assumed to include all receptor groups (i.e., third trimester, infants, children, and adults) with almost continuous exposure to construction emissions. While there are additional sensitive receptors within 1,000 feet of the project site, the receptors chosen near the site are adequate to identify maximum impacts from the project.

Construction Emissions

The CalEEMod model provided total annual PM_{10} exhaust emissions (assumed to be DPM) for the off-road construction equipment and for exhaust emissions from on-road vehicles, with total emissions from all construction stages being 0.04 tons (83 pounds). Vehicle emissions are a result of travel on-site during demolition and grading activities, worker travel on-site, and vendor travel on-site during construction. A trip length of a half mile was used to represent vehicle travel while at or near the construction site. Fugitive dust emissions (i.e., $PM_{2.5}$) were estimated by CalEEMod to be 0.03 tons (or 58 pounds) for the overall construction period.

Dispersion Modeling

The U.S. EPA AERMOD dispersion model was used to predict DPM and $PM_{2.5}$ concentrations at sensitive receptors (i.e., residences) in the vicinity of the project construction area. The AERMOD dispersion model is a BAAD-recommended model for use in modeling analysis of these types of emission activities for CEQA projects.[8] Emission sources for the construction site were grouped into two categories: exhaust emissions of DPM and fugitive $PM_{2.5}$ dust emissions.

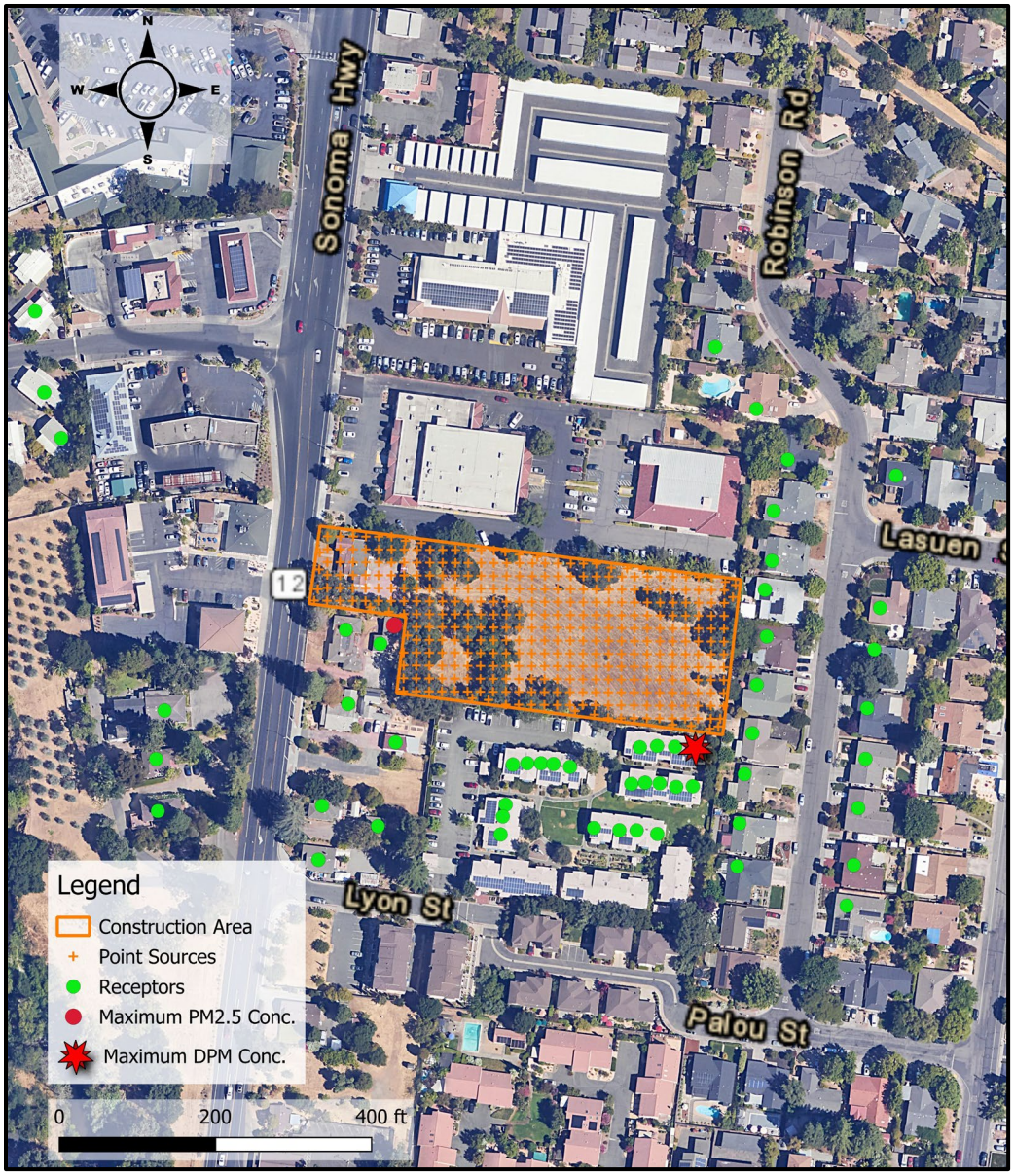
Construction Sources

DPM exhaust emissions were modeled as an array of point sources to reflect construction equipment and trucks operating at the site. These sources included nine-foot release heights (construction equipment exhaust stack height) that were placed at 16 feet (5 meter) intervals throughout the construction site. This resulted in 371 individual point sources being used to represent mobile equipment DPM exhaust emissions in the construction. The total DPM emissions were divided into each of the point sources that were spread throughout the project construction site. In addition, the following stack parameters were used: a vertical release, a stack diameter of 2.5 inches, an exhaust temperature of 918˚F, and an exit velocity of 309 feet per second. Point

[8] BAAD, 2022. BAAQMD CEQA Air Quality Guidelines Appendix E. April 2023. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?la=en.

source plume rise is calculated by the AERMOD dispersion model. Emissions from vehicle travel on- and off-site were also distributed among the point sources throughout the site. The array of point sources used for the modeling are shown in Figure 1.

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



For modeling fugitive $PM_{2.5}$ emissions, an area source with a near-ground level release height of 7 feet (2 meters) was used. 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 exits 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 data set (2013 - 2017) of hourly data from the Sonoma Baylands meteorological station prepared for use with the AERMOD model by BAAD. Construction emissions were modeled as occurring Monday through Friday between 7:00 a.m. to 4:00 p.m., when the majority of construction is expected to occur. Annual DPM and $PM_{2.5}$ concentrations from construction activities for each of the two construction years 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 of receptors on the first and second floors of nearby single- and multi-family residences.[9]

Construction Health Risk Impacts

The maximum increased cancer risks were calculated using the modeled DPM concentrations combined with the BAAD 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.

Non-cancer health hazards and maximum $PM_{2.5}$ concentrations were also calculated. The maximum modeled annual $PM_{2.5}$ concentration was calculated by combining the DPM and fugitive $PM_{2.5}$ concentrations. The maximum HI value was computed based on the ratio of the maximum DPM concentration to the chronic inhalation refence exposure level for DPM of 5 $\mu g/m^3$.

Results of this assessment indicated that the construction MEIs were located at two different receptors. The cancer risk MEI was located on the second floor (15 feet above the ground) at the multi-family home southeast of the project site. The annual $PM_{2.5}$ MEI was located on the first floor (5 feet above the ground) at a receptor southwest of the site. The location of the MEIs and nearby sensitive receptors are shown in Figure 1. Table 4 summarizes the maximum cancer risks, $PM_{2.5}$ concentrations, and HI for project related construction activities. *Attachment 2* to this report includes the emission calculations used for the construction modeling and the cancer risk calculations.

The unmitigated maximum cancer risks from construction activities at the construction MEIs would exceed the single-source significance threshold. However, with the implementation of *Mitigation Measure AQ-1*, the mitigated cancer risk would not exceed the significance threshold. The annual $PM_{2.5}$ concentration and HI from construction activities would be below the single-source significance thresholds with and without mitigation.

[9] BAAD, 2022. BAAQMD CEQA Air Quality Guidelines Appendix E. April 2023.

Table 4. Construction Risk Impacts at the Off-Site MEIs

Source		Cancer Risk[1] (per million)	Annual $PM_{2.5}$[1] ($\mu g/m^3$)	Hazard Index
Project Construction	Unmitigated	**11.06 (infant)**	0.29	0.01
	Mitigated[2]	3.36 (infant)	0.27	<0.01
	BAAD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	Unmitigated	***Yes***	*No*	*No*
	Mitigated[2]	*No*	*No*	*No*

Notes: [1] The maximum cancer risk and $PM_{2.5}$ concentration impacts occur at different receptor locations.
[2] Construction equipment with Tier 4 final engines as a Mitigation Measure and required basic BMPs.

Mitigation Measure AQ-1: **Use construction equipment that has low diesel particulate matter exhaust emissions.**

Implement a feasible plan to reduce DPM emissions by 10 percent such that increased cancer risk from construction would be reduced below BAAD CEQA significance levels as follows:

1. All construction equipment larger than 50 horsepower used at the site for more than two continuous days or 20 hours total shall meet U.S. EPA Tier 4 final emission standards for PM (PM_{10} and $PM_{2.5}$), if feasible, otherwise,

Alternatively, the applicant may develop another construction operations plan demonstrating that the construction equipment used on-site would achieve a reduction in construction diesel particulate matter emissions by 10 percent or greater. Elements of the plan could include a combination of some of the following measures:

- Installation of electric power lines during early construction phases to avoid use of diesel portable equipment,
- Use of electrically powered equipment,
- Forklifts and aerial lifts used for exterior and interior building construction shall be electric or propane/natural gas powered,
- Change in construction build-out plans to lengthen phases, and
- Implementation of different building techniques that result in less diesel equipment usage.

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

Effectiveness of Mitigation Measure AQ-1

CalEEMod was used to compute emissions associated with this mitigation measure assuming that all construction equipment met U.S. EPA Tier 4 final engine standards. With these implemented, the project's construction cancer risk levels (assuming infant exposure) would be reduced by 81 percent to 3.36 per million. As a result, the project's construction risks would be reduced well below the BAAD single-source cancer risk threshold.

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

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

A review of the project area using BAAD's geographic information systems (GIS) screening maps identified the existing nearby stationary sources of TACs. Additionally, traffic on nearby roadways would generate TACs that would contribute to cumulative concentrations of DPM and $PM_{2.5}$. Figure 2 shows the locations of the sources affecting the MEIs within the influence area. Health risk impacts from these sources upon the MEIs are reported in Table 5. Details of the cumulative screening analysis and health risk calculations are included in *Attachment 3.*

Nearby Local Roadways

The project site is located in a mixed-use area near one arterial roadway, State Highway 12 (i.e., Sonoma Highway), and several other local roadways. Cancer risk, $PM_{2.5}$ concentrations, and HI associated with traffic on the nearby roadways were estimated using BAAD screening values provided via GIS data files (i.e., raster files).[10] BAAD raster files provide screening-level cancer risk, $PM_{2.5}$ concentrations, and HI for roadways within the Bay Area and were produced using AERMOD and a 20x20-meter emissions grid. The raster file uses EMFAC2021 data for vehicle emissions and fleet mix for roadways and includes the assumptions listed in Appendix E of the Air District's CEQA Air Quality Guidance for risk assessment. These estimates represent conservative risks reflective of 2022 conditions and are meant to provide a conservative estimate of future conditions, which do not reflect the increased proportion of zero emission motor vehicles that will result in lower future emissions.[11] These screening values are considered higher than values that would be obtained with refined modeling methods. These data are based on region-wide emissions rather than just those that occur within 1,000 feet of the project. More information regarding the assumptions used to develop the screening layers can be found in Sections 6 and 7 in Appendix E of BAAD's 2022 CEQA guidance.[12] Screening-level cancer risk, $PM_{2.5}$ concentration, and HI for the cumulative roadway impacts at the construction MEIs are listed in Table 5.

BAAD Permitted Stationary Sources

Permitted stationary sources of air pollution near the project site were identified using BAAD's *Permitted Stationary Sources 2022* GIS map website.[13] This mapping tool identifies the location of nearby stationary sources and their estimated risk and hazard impacts, including emissions and adjustments to account for OEHHA guidance. Two sources were identified using this tool, one

[10] https://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools/health-risk-screening-and-modeling
[11] BAAD, 2022. BAAQMD CEQA Air Quality Guidelines Appendix E, Section 9. April 2023
[12] BAAD, 2022. BAAQMD CEQA Air Quality Guidelines Appendix E. April 2023. https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa-guidelines-2022/appendix-e-recommended-methods-for-screening-and-modeling-local-risks-and-hazards_final-pdf.pdf?la=en
[13] BAAD, Web: https://baaqmd.maps.arcgis.com/apps/webappviewer/index.html?id=845658c19eae4594b9f4b805fb9d89a3

generator and one gasoline dispensing facility.[14] A stationary source information request was submitted to BAAD in order to estimate health risk impacts from the gasoline dispensing facility.

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

The screening risk and hazard levels provided by BAAD for the stationary sources were adjusted for distance using BAAD's *Distance Adjustment Multiplier Tool for Generic Equipment and Diesel Internal Combustion Engines* and CARB's *Gasoline Station Risk Screening Tool.* BAAD provided the gasoline throughput for the gas dispensing facility near the project site.[15] The provided throughput, the distance between the MEIs and the gas dispensing facility, and the region closest to the project (which in this case is San Jose) was input into the CARB tool to calculate the cancer risk and hazard index. Health risk impacts from the stationary sources upon the MEIs are reported in Table 5.

[14] The tool also identified an auto body shop nearby, but no risks were associated with the source by BAAD.
[15] Email correspondence from BAAD CEQA Team, January 29, 2025. Subject: "Re_ Public Records Number 2025-01-0223 CRM:0444211".

Summary of Cumulative Health Risk Impacts

Table 5 reports both the project and cumulative health risk impacts. The cumulative annual cancer risk, maximum $PM_{2.5}$ concentration, and HI values would not exceed the BAAD's cumulative source health risk thresholds.

Table 5. Impacts from Combined Sources at Off-Site MEIs

Source		Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Project Impacts				
Project Construction	Unmitigated	**11.06 (infant)**	0.29	0.01
	Mitigated	3.36 (infant)	0.27	<0.01
Cumulative Impacts				
Local Roadways		10.46	0.16	0.02
Lucky #778 (Facility ID #18339, Generator)		<0.01	-	-
Cachita LLC (Facility #112205-1, Gas Dispensing Facility)		0.73	-	0.05
Cumulative Total	Unmitigated	22.25	0.45	<0.09
	Mitigated	14.55	0.43	<0.08
BAAD Cumulative Source Threshold		***>100***	***>0.8***	***>10.0***
Exceed Threshold?	Unmitigated	*No*	*No*	*No*
	Mitigated	*No*	*No*	*No*

Non-CEQA: On-site Health Risk Assessment of TAC Sources - New Sensitive Receptors

In addition to evaluating health risks from project construction, a health risk assessment was conducted to assess the impacts existing TAC sources would have on the new proposed sensitive receptors (residents). The same TAC sources identified above (i.e., stationary sources and roadways) were included in the assessment.[16] Results of the onsite assessment are listed in Table 6. *Attachment 3* includes the information used for determining the health risk impacts upon the proposed on-site sensitive receptors.

Major Roadways – State Highway 12 (Sonoma Highway)

A refined analysis of potential health impacts from vehicle traffic on Highway 12 was conducted. The refined analysis involved predicting emissions for the traffic volume and mix of vehicle types on the roadways near the project site and using an atmospheric dispersion model to predict pollutant concentrations. Cancer risks and non-cancer risks were then computed based on the modeled concentrations.

[16] 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.

Traffic Emissions Modeling

Traffic emissions rates were developed for DPM, organic TACs, and $PM_{2.5}$ using the Caltrans version of the CARB 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, running evaporative losses, tire and brake wear, and fugitive road dust. Inputs to the model include region (Sonoma County), type of road (major/collector), traffic mix assigned by CT-EMFAC2021 for the county, year of analysis (2028 project completion year), and season (annual).

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 emissions model, the higher the emission rates. Year 2028 emissions conservatively represent future conditions over the time period that cancer risks are evaluated (i.e., 30-years) since vehicle exhaust and evaporative emissions will decrease in the future.

The average daily traffic (ADT) for Highway 12 was based on information Caltrans' Census data for the year 2022.[17] Traffic volumes were increased by 1,000 vehicles per day to account for traffic growth in the area, including the traffic generated by the project. Hourly traffic distributions for the highway were estimated by averaging 2024 hourly traffic volumes from State Route 29 west of Sonoma taken from Caltrans Performance Measurement System (PeMS) data. PeMS data is collected in real-time from nearly 40,000 individual detectors spanning the freeway system across all major metropolitan areas of California.[18] The average fraction of traffic volume each hour was calculated using PeMS data and applied to the traffic estimates for the roadways to obtain hourly traffic emission rates.

An average speed of 30 mph was used for the analysis. This is the posted speed limit for the highway in the project area and it is assumed the average vehicle speed remains about the same all day long (i.e., no adjustment for am or pm peak hours).

Hourly emissions rates were developed for DPM, organic TACs, and $PM_{2.5}$ along Highway 12 within 1,000 feet of the project site. AERMOD was used to estimate the pollutant concentrations at the locations of the new townhouses. Maximum increased lifetime cancer risks at the receptor with the highest DPM concentration was calculated using modeled DPM and TOG concentrations and BAAD methods and exposure parameters.

Dispersion Modeling

Dispersion modeling was conducted using the EPA AERMOD air quality dispersion model, which is recommended by the BAAD for this type of analysis.[19] Pollutant emissions from traffic on Highway 12 within 1,000 feet of the project site were evaluated as an R-Line source. The same meteorological data used in the previous construction site dispersion modeling scenario were used. Other inputs to the model included road geometry, hourly traffic emissions, and receptor heights

[17] https://dot.ca.gov/programs/traffic-operations/census
[18] https://dot.ca.gov/programs/traffic-operations/mpr/pems-source
[19] BAAD, 2022. BAAQMD CEQA Air Quality Guidelines. April 2023.

of five feet (1.5 meters), 15 feet (4.6 meters), and 25 feet (7.6 meters), which represented breathing heights on the first, second, and third floors on the new buildings. Receptors were placed at each new building based on the site plan provided.

Maximum increased cancer risks were calculated for the residents at the project site using the modeled TAC concentrations. A 30-year exposure period was used in calculating cancer risks assuming the residents would include infants and adults. Residents were assumed to be in their townhomes for 24 hours per day for 350 days per year. The maximum impacts from Highway 12 occurred on the first floor (5 feet above the ground) in the southwest unit fronting the highway. Cancer risks associated with the roadways are greatest closest to the roadway and decrease with distance from the road. The highway impacts at the project site are shown in Table 6. Details of the highway emission calculations, dispersion modeling, and cancer risk calculations are contained in *Attachment 3.*

Stationary Sources

The stationary source screening analysis for the new project sensitive receptors was conducted in the same manner as previously described. Table 6 provided the results of the health risk assessment for the stationary sources impacting the site.

Summary of Health Risks at the Project Site

Health risk impacts from the existing TAC sources upon the project site are reported in Table 6. The location of the maximum exposed individual (MEI) is shown in Figure 3. The risks from each TAC source are compared against the BAAD single-source threshold, while the sum of the impacts is compared against the cumulative source threshold. As shown, existing sources of TAC emissions do not exceed the BAAD single-source or cumulative-source thresholds for cancer risk, annual $PM_{2.5}$ concentration, or HI.

Table 6. Impacts from Existing TAC Sources on Project Site Receptors

Source	Cancer Risk (per million)	Annual $PM_{2.5}$ ($\mu g/m^3$)	Hazard Index
Highway 12	3.46	0.15	<0.01
Lucky #778 (Facility ID #18339, Generator)	<0.01	-	-
Cachita LLC (Facility #112205-1, Gas Dispensing Facility)	2.53	-	0.25
BAAD Single-Source Threshold	***>10.0***	***>0.3***	***>1.0***
Exceed Threshold?	*No*	*No*	*No*
Cumulative Total	6.00	0.15	<0.26
BAAD Cumulative Source Threshold	***>100***	***>0.8***	***>10.0***
Exceed Threshold?	*No*	*No*	*No*

Figure 3. Locations of Project Site, On-Site Residential Receptors, Roadway Model, Stationary Sources, and Maximum TAC Impacts

Supporting Documentation

Attachment 1 includes the CalEEMod output for project construction emissions. Also included are any modeling assumptions.

Attachment 2 is the construction health risk assessment. This includes the summary of the dispersion modeling and the cancer risk calculations for construction. 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 screening and modeling results from sources affecting the construction MEIs and project site receptors.

Attachment 1: CalEEMod Modeling Inputs and Outputs

1. Total construction duration (number of months or weeks):
2. Foundation type:
3. Total area of soil disturbance (square feet):
4. Total excavation amount (cubic yards):
5. Maximum depth of excavation, including foundations (feet below ground):

Table 1: Construction Information by Phase

Construction Phase	Definition	Associated Schedule by Start (MM/YY) to End (MM/YY)	Total Acres Disturbed	Cubic Yards of Soil Disturbed
Demolition	Involves tearing down of buildings or structures – *Identify square footage of building(s) to be demolished*	Bldg demo & Demo of walls, pavements: 2 weeks	Approx. 0.75 acre	minimal
Site Preparation	Involves clearing vegetation (grubbing and tree/stump removal) and stones prior to grading	Removal of trees, vegetation: 2 weeks	2 acres	minimal
Grading	Involves the cut and fill of land to ensure the proper base and slope for the construction foundation	Grading: 4 weeks utilities installation on-site (SS, SD & W): 9 weeks onsite jt trench: 2 weeks	2 acres	600 cyds cut 5800 cyds fill Net fill 5200 cyds
Building Construction	Involves the foundation and shoring work	Foundations: 1 week pour for each of 7 building; phased = 7 weeks	Bldg. areas only, about 0.75 acres	Bldg. pads only
	Involves the construction of structures and buildings	5, 3-story blgs – 7 months each (incl foundation & coatings); 2, 2-story bldgs. – 6 months each. Assuming multiple bldgs. under construction simultaneously (phasing) = 15 months	Bldg. areas only, about 0.75 acres	Minimal; around bldgs. only due to scaffolding
Architectural Coating & Finishing	Involves the application of coatings to both the interior and exterior of buildings or structures	Each bldg. – 3 weeks	Bldg. areas only, about 0.75 acres	Minimal; around bldgs. only due to scaffolding for exterior

Table 1: Construction Information by Phase

Construction Phase	Definition	Associated Schedule by Start (MM/YY) to End (MM/YY)	Total Acres Disturbed	Cubic Yards of Soil Disturbed
				finishing
Paving	Involves the laying of concrete or asphalt such as in parking lots or roads	2 weeks	Approx. 1 acre	Minimal
Other	Provide a general description if the phase does not fit within the above definitions			

Table 2: Construction Equipment List

Equipment Type	**Associated Horsepower (if available)**	**No. of Equipment**	**Associated Construction Phase**	**Total Number of Days or Weeks in Construction Phase**
Aerial Lifts		1	Building Const	4 weeks (truss deliveries, roofing)
Air Compressors		2	Building const	Roofing, drywall installation – 3 months
Bore/Drill Rigs		NA		
Bulldozer (Small)		1	Grading	2 weeks
Bulldozer (Large)		NA		
Caisson Drilling		NA		
Cement and Mortar Mixers		2	Paving, Building Const	2 months (not continuous)
Clam shovel drop (slurry wall)		NA		
Concrete/Industrial Saws		NA		
Cranes		NA		
Crawler Tractors		1	Demolition; grading	8 weeks
Crushing/Processing Equipment		1	Demo	1 week
Dumpers/Tenders		1	Demo; Bldg Const	
Excavators		1	Grading; utilities installation	12 weeks

Table 2: Construction Equipment List

Equipment Type	Associated Horsepower (if available)	No. of Equipment	Associated Construction Phase	Total Number of Days or Weeks in Construction Phase
Forklifts		2	Building Construction	7 months
Generator Sets		1	Construction – final interiors, if no power to site yet	4 weeks
Graders		2	Grading, utilities installation	12 weeks
Hoe Ram		NA		
Hydromill (slurry wall)		NA		
Jackhammer		1	Concrete demo = 1 week	
Loaded Trucks: *Assuming this means trucks delivering materials*		# of trucks / week will vary w/ phase of construction	Utilities installation, construction	7 months
Off-Highway Tractors		NA		
Off-Highway Trucks		NA		
Other Construction Equipment				
Other General Industrial Equipment				
Other Material Handling Equipment				
Pavers		1	Paving	
Paving Equipment		1	Paving	
Pile Driver (impact)		NA		
Pile Driver (sonic)		NA		
Plate Compactors		NA		
Pressure Washers		1	Paving, Construction	12 weeks
Pumps		NA		
Rollers		NA		
Rough Terrain Forklifts		NA		

Table 2: Construction Equipment List

Equipment Type	Associated Horsepower (if available)	No. of Equipment	Associated Construction Phase	Total Number of Days or Weeks in Construction Phase
Rubber Tired Dozers		NA		
Rubber Tired Loaders		NA		
Scrapers		1	Grading	2 weeks
Signal Boards		1	Demo & Grading	4 weeks
Skid Steer Loaders		1	Demo & Grading	4 weeks
Surfacing Equipment		NA		
Sweepers/Scrubbers		1	All phases	9 months
Tractors/Loaders/Backhoes		3	Grading, Utilities Installation	12 weeks
Trenchers		1	Utilities installation	12 weeks
Vibratory Roller		NA		
Welders		NA		

Additional Notes & Construction Information:

25-011 Montaldo Apartments 19320 Sonoma Hwy, Sonoma BMPS T4F Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	25-011 Montaldo Apartments 19320 Sonoma Hwy, Sonoma BMPS T4F
Construction Start Date	1/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	20.8
Location	19320 Sonoma Hwy, Sonoma, CA 95476, USA
County	Sonoma-San Francisco
City	Sonoma
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	980
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Condo/Townhouse	50.0	Dwelling Unit	2.15	66,874	25,875	—	128	—

Parking Lot	21.0	Space	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	9.11	14.2	0.58	1.27	1.85	0.54	0.36	0.90	4,046
Mit.	9.02	4.13	0.07	1.27	1.34	0.07	0.36	0.43	4,046
% Reduced	1%	71%	89%	—	28%	88%	—	52%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	34.2	29.2	1.24	7.81	9.05	1.14	3.97	5.12	5,458
Mit.	34.1	4.21	0.63	7.81	7.91	0.49	3.97	4.07	5,458
% Reduced	< 0.5%	86%	49%	—	13%	58%	—	20%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.45	4.49	0.19	0.61	0.80	0.17	0.21	0.39	1,282
Mit.	2.35	1.58	0.04	0.61	0.65	0.03	0.21	0.25	1,282
% Reduced	4%	65%	80%	—	19%	80%	—	36%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.82	0.04	0.11	0.15	0.03	0.04	0.07	212
Mit.	0.43	0.29	0.01	0.11	0.12	0.01	0.04	0.05	212

% Reduced	4%	65%	80%	—	19%	80%	—	36%	—

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.64	14.2	0.58	1.27	1.85	0.54	0.36	0.90	4,046
2027	9.11	2.06	0.06	0.35	0.41	0.06	0.08	0.14	830
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	34.2	29.2	1.24	7.81	9.05	1.14	3.97	5.12	5,458
2027	9.11	2.10	0.06	0.35	0.41	0.06	0.08	0.14	808
2028	9.10	3.66	0.13	0.19	0.32	0.12	0.05	0.17	1,139
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.49	4.49	0.19	0.61	0.80	0.17	0.21	0.39	1,282
2027	2.45	1.18	0.03	0.17	0.21	0.03	0.04	0.07	424
2028	0.35	0.13	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	38.3
Annual	—	—	—	—	—	—	—	—	—
2026	0.27	0.82	0.04	0.11	0.15	0.03	0.04	0.07	212
2027	0.45	0.22	0.01	0.03	0.04	0.01	0.01	0.01	70.2
2028	0.06	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.44	4.13	0.07	1.27	1.34	0.07	0.36	0.43	4,046

2027	9.02	1.36	0.01	0.35	0.36	0.01	0.08	0.10	830
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	34.1	4.21	0.63	7.81	7.91	0.49	3.97	4.07	5,458
2027	9.02	1.41	0.01	0.35	0.36	0.01	0.08	0.10	808
2028	9.02	1.73	0.05	0.19	0.25	0.05	0.05	0.10	1,139
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.12	1.58	0.04	0.61	0.65	0.03	0.21	0.25	1,282
2027	2.35	0.81	0.01	0.17	0.18	0.01	0.04	0.05	424
2028	0.34	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.3
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	0.29	0.01	0.11	0.12	0.01	0.04	0.05	212
2027	0.43	0.15	< 0.005	0.03	0.03	< 0.005	0.01	0.01	70.2
2028	0.06	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.53	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.21	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.16	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Area	1.94	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.48
Total	3.53	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Area	1.69	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.48
Total	3.21	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	1.33	1.24	0.02	2.01	2.03	0.02	0.51	0.53	2,243
Area	1.81	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.75
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.48

Total	3.16	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Area	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Energy	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	82.2
Water	—	—	—	—	—	—	—	—	1.50
Waste	—	—	—	—	—	—	—	—	11.5
Refrig.	—	—	—	—	—	—	—	—	0.08
Total	0.58	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Area	1.94	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.48
Total	3.53	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Area	1.69	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7

Refrig.	—	—	—	—	—	—	—	—	0.48
Total	3.21	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	1.33	1.24	0.02	2.01	2.03	0.02	0.51	0.53	2,243
Area	1.81	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.75
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.48
Total	3.16	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Area	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Energy	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	82.2
Water	—	—	—	—	—	—	—	—	1.50
Waste	—	—	—	—	—	—	—	—	11.5
Refrig.	—	—	—	—	—	—	—	—	0.08
Total	0.58	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

3. Construction Emissions Details

3.1. Demolition (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	34.2	3.55	0.68	—	0.68	0.53	—	0.53	726
Demolition	—	—	—	0.26	0.26	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.10	0.02	—	0.02	0.01	—	0.01	19.9
Demolition	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.29
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.00	0.12	0.12	0.00	0.03	0.03	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.31	< 0.005	0.05	0.06	< 0.005	0.01	0.02	227
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.35
Vendor	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	6.23
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	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	1.03

3.2. Demolition (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	34.1	3.09	0.63	—	0.63	0.48	—	0.48	726
Demolition	—	—	—	0.26	0.26	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.08	0.02	—	0.02	0.01	—	0.01	19.9
Demolition	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.29
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.00	0.12	0.12	0.00	0.03	0.03	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.31	< 0.005	0.05	0.06	< 0.005	0.01	0.02	227

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.35
Vendor	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	6.23
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.56
Vendor	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	1.03

3.3. Site Preparation (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	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	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.00	0.14	0.14	0.00	0.03	0.03	141
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.91
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	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

3.4. Site Preparation (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	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	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	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	24.1
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.00	0.14	0.14	0.00	0.03	0.03	141
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.91
Vendor	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

Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	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

3.5. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.51	13.1	0.57	—	0.57	0.53	—	0.53	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.51	13.1	0.57	—	0.57	0.53	—	0.53	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.34	0.10	—	0.10	0.09	—	0.09	534
Dust From Material Movement	—	—	—	0.15	0.15	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.02	—	0.02	0.02	—	0.02	88.5
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.08	0.00	0.25	0.25	0.00	0.06	0.06	261
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.00	0.01	0.18	0.19	0.01	0.05	0.06	785
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.00	0.25	0.25	0.00	0.06	0.06	242
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.05	0.01	0.18	0.19	0.01	0.05	0.06	784
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.04	0.04	0.00	0.01	0.01	43.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.19	< 0.005	0.03	0.03	< 0.005	0.01	0.01	140
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.22
Vendor	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	0.01	0.01	< 0.005	< 0.005	< 0.005	23.1

3.6. 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	3.04	0.06	—	0.06	0.06	—	0.06	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	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	3.04	0.06	—	0.06	0.06	—	0.06	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	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	0.54	0.01	—	0.01	0.01	—	0.01	534
Dust From Material Movement	—	—	—	0.15	0.15	—	0.04	0.04	—
Onsite truck	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	88.5
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Worker	0.12	0.08	0.00	0.25	0.25	0.00	0.06	0.06	261
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.00	0.01	0.18	0.19	0.01	0.05	0.06	785
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.00	0.25	0.25	0.00	0.06	0.06	242
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	1.05	0.01	0.18	0.19	0.01	0.05	0.06	784
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.00	0.04	0.04	0.00	0.01	0.01	43.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.19	< 0.005	0.03	0.03	< 0.005	0.01	0.01	140
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.22
Vendor	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	0.01	0.01	< 0.005	< 0.005	< 0.005	23.1

3.7. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	1.79	0.07	—	0.07	0.07	—	0.07	318
Onsite truck	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	1.79	0.07	—	0.07	0.07	—	0.07	318

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	0.03	—	0.03	0.03	—	0.03	144
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	23.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.14	0.10	0.00	0.30	0.30	0.00	0.07	0.07	313
Vendor	< 0.005	0.19	< 0.005	0.04	0.04	< 0.005	0.01	0.01	153
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	56.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.00	0.30	0.30	0.00	0.07	0.07	291
Vendor	< 0.005	0.20	< 0.005	0.04	0.04	< 0.005	0.01	0.01	152
Hauling	< 0.005	0.08	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.13	0.13	0.00	0.03	0.03	133
Vendor	< 0.005	0.09	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	69.2
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.7
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.5
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.25

3.8. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	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	0.47	0.01	—	0.01	0.01	—	0.01	144
Onsite truck	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	23.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.14	0.10	0.00	0.30	0.30	0.00	0.07	0.07	313
Vendor	< 0.005	0.19	< 0.005	0.04	0.04	< 0.005	0.01	0.01	153
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	56.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.00	0.30	0.30	0.00	0.07	0.07	291

Vendor	< 0.005	0.20	< 0.005	0.04	0.04	< 0.005	0.01	0.01	152
Hauling	< 0.005	0.08	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.13	0.13	0.00	0.03	0.03	133
Vendor	< 0.005	0.09	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	69.2
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.7
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.5
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.25

3.9. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.72	0.06	—	0.06	0.06	—	0.06	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.72	0.06	—	0.06	0.06	—	0.06	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.80	0.03	—	0.03	0.03	—	0.03	147
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.01	—	0.01	< 0.005	—	< 0.005	24.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.09	0.00	0.30	0.30	0.00	0.07	0.07	307
Vendor	< 0.005	0.18	< 0.005	0.04	0.04	< 0.005	0.01	0.01	150
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	55.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.00	0.30	0.30	0.00	0.07	0.07	286
Vendor	< 0.005	0.19	< 0.005	0.04	0.04	< 0.005	0.01	0.01	149
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	55.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.14	0.14	0.00	0.03	0.03	134
Vendor	< 0.005	0.09	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	69.3
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.6
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.5
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.24

3.10. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	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	0.48	0.01	—	0.01	0.01	—	0.01	147
Onsite truck	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	24.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.09	0.00	0.30	0.30	0.00	0.07	0.07	307
Vendor	< 0.005	0.18	< 0.005	0.04	0.04	< 0.005	0.01	0.01	150
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	55.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.00	0.30	0.30	0.00	0.07	0.07	286
Vendor	< 0.005	0.19	< 0.005	0.04	0.04	< 0.005	0.01	0.01	149
Hauling	< 0.005	0.07	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	55.2
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.00	0.14	0.14	0.00	0.03	0.03	134
Vendor	< 0.005	0.09	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	69.3
Hauling	< 0.005	0.03	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.6

Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.5
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.24

3.11. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	3.14	0.12	—	0.12	0.11	—	0.11	669
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.3
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	3.03
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	0.00	0.10	0.10	0.00	0.02	0.02	97.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.48	< 0.005	0.09	0.09	< 0.005	0.03	0.03	373
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.70
Vendor	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	10.2
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	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	1.69

3.12. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.21	0.05	—	0.05	0.04	—	0.04	669
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	18.3
Paving	0.00	—	—	—	—	—	—	—	—

Onsite truck	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	3.03
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	0.04	0.00	0.10	0.10	0.00	0.02	0.02	97.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.48	< 0.005	0.09	0.09	< 0.005	0.03	0.03	373
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.70
Vendor	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	10.2
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.45
Vendor	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	1.69

3.13. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	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	0.21	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.6
Architectural Coatings	2.25	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.56
Architectural Coatings	0.41	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.00	0.06	0.06	0.00	0.01	0.01	61.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.00	0.06	0.06	0.00	0.01	0.01	57.2
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	14.4
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.39
Vendor	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

3.14. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	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	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	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	0.16	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.6
Architectural Coatings	2.25	—	—	—	—	—	—	—	—
Onsite truck	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	5.56
Architectural Coatings	0.41	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.00	0.06	0.06	0.00	0.01	0.01	61.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.00	0.06	0.06	0.00	0.01	0.01	57.2
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	14.4
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.39
Vendor	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

3.15. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	0.02	—	0.02	0.01	—	0.01	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	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	4.98
Architectural Coatings	0.33	—	—	—	—	—	—	—	—
Onsite truck	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	0.82
Architectural Coatings	0.06	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	0.00	0.06	0.06	0.00	0.01	0.01	56.2

Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.11
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.35
Vendor	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

3.16. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	8.97	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.98
Architectural Coatings	0.33	—	—	—	—	—	—	—	—
Onsite truck	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	0.82
Architectural Coatings	0.06	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	0.00	0.06	0.06	0.00	0.01	0.01	56.2
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.11
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.35
Vendor	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

3.17. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	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	11.9
Onsite truck	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	1.97
Onsite truck	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	0.04	0.04	0.00	0.01	0.01	43.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.12
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.19
Vendor	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

3.18. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.9
Onsite truck	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	1.97
Onsite truck	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	0.04	0.04	0.00	0.01	0.01	43.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.12
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.19
Vendor	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

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4

Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	13.1
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	13.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Annual	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	13.1
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	13.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0

4.3. Area Emissions by Source

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.43	—	—	—	—	—	—	—	—
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61

Total	1.94	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.43	—	—	—	—	—	—	—	—
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Total	1.69	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	0.26	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Total	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.43	—	—	—	—	—	—	—	—
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Total	1.94	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.43	—	—	—	—	—	—	—	—
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Total	1.69	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	0.26	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Total	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62

4.4. Water Emissions by Land Use

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.50
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	1.50

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.50
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	1.50

4.5. Waste Emissions by Land Use

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.5

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7

Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.5

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	0.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	0.48
Annual	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	0.08

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	0.48
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	0.48
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	0.08

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	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	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	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	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	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	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	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	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	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	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	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	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	1/1/2026	1/14/2026	5.00	10.0	—
Site Preparation	Site Preparation	1/15/2026	1/28/2026	5.00	10.0	—
Grading	Grading	1/29/2026	4/29/2026	5.00	65.0	—
Building Construction	Building Construction	5/14/2026	8/25/2027	5.00	335	—
Paving	Paving	1/20/2028	2/2/2028	5.00	10.0	—
Architectural Coating	Architectural Coating	8/26/2027	1/19/2028	5.00	105	—
Trenching	Trenching	4/30/2026	5/13/2026	5.00	10.0	—

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	Dumpers/Tenders	Diesel	Average	1.00	8.00	16.0	0.38
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	4.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	7.38	36.0	0.38
Grading	Graders	Diesel	Average	2.00	7.38	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.23	367	0.40
Grading	Signal Boards	Diesel	Average	1.00	1.23	6.00	0.82
Grading	Tractors/Loaders/Back hoes	Diesel	Average	4.00	7.38	84.0	0.37
Grading	Skid Steer Loaders	Diesel	Average	1.00	1.23	71.0	0.37
Grading	Trenchers	Diesel	Average	1.00	7.38	40.0	0.50
Grading	Scrapers	Diesel	Average	1.00	1.23	423	0.48
Building Construction	Dumpers/Tenders	Diesel	Average	1.00	0.24	16.0	0.38
Building Construction	Forklifts	Diesel	Average	2.00	3.34	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	0.48	14.0	0.74
Building Construction	Sweepers/Scrubbers	Diesel	Average	1.00	4.30	36.0	0.46
Building Construction	Pressure Washers	Diesel	Average	1.00	1.19	14.0	0.30
Building Construction	Aerial Lifts	Diesel	Average	1.00	0.48	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	0.72	10.0	0.56
Building Construction	Air Compressors	Diesel	Average	2.00	1.43	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	6.00	89.0	0.36
Paving	Pressure Washers	Diesel	Average	1.00	8.00	14.0	0.30
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	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	Dumpers/Tenders	Diesel	Average	1.00	8.00	16.0	0.38
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	4.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	7.38	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	7.38	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	1.23	367	0.40
Grading	Signal Boards	Diesel	Average	1.00	1.23	6.00	0.82
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	7.38	84.0	0.37
Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	1.23	71.0	0.37
Grading	Trenchers	Diesel	Tier 4 Final	1.00	7.38	40.0	0.50
Grading	Scrapers	Diesel	Tier 4 Final	1.00	1.23	423	0.48
Building Construction	Dumpers/Tenders	Diesel	Average	1.00	0.24	16.0	0.38
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	3.34	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	0.48	14.0	0.74
Building Construction	Sweepers/Scrubbers	Diesel	Tier 4 Final	1.00	4.30	36.0	0.46
Building Construction	Pressure Washers	Diesel	Average	1.00	1.19	14.0	0.30
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	0.48	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	0.72	10.0	0.56
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	1.43	37.0	0.48

Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Pressure Washers	Diesel	Average	1.00	8.00	14.0	0.30
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	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	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	2.90	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	30.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	10.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	36.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	5.34	8.40	HHDT,MHDT
Building Construction	Hauling	0.72	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	5.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	7.20	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	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT
Trenching	Hauling	0.00	20.0	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	—	8.40	HHDT,MHDT
Demolition	Hauling	2.90	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	30.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	—	8.40	HHDT,MHDT
Grading	Hauling	10.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	36.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	5.34	8.40	HHDT,MHDT
Building Construction	Hauling	0.72	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	5.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	7.20	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	—	—	—	—
Trenching	Worker	5.00	11.7	LDA,LDT1,LDT2
Trenching	Vendor	—	8.40	HHDT,MHDT

Trenching	Hauling	0.00	20.0	HHDT
Trenching	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	135,420	45,140	0.00	0.00	—

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	2,500	—
Site Preparation	—	—	5.10	0.00	—
Grading	5,200	—	25.5	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

Condo/Townhouse	—	0%
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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	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
Condo/Townhouse	366	407	314	133,016	2,874	3,196	2,466	1,044,685
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
Condo/Townhouse	366	407	314	133,016	2,874	3,196	2,466	1,044,685
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)

Condo/Townhouse	—
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)
Condo/Townhouse	—
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)
135419.85	45,140	0.00	0.00	—

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)
Condo/Townhouse	206,927	138	0.0330	0.0040	1,297,153
Parking Lot	0.00	138	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)
Condo/Townhouse	206,927	138	0.0330	0.0040	1,297,153
Parking Lot	0.00	138	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)
Condo/Townhouse	1,611,840	283,302
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	1,611,840	283,302
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	37.0	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	37.0	—
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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

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

5.15.2. 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	11.3	annual days of extreme heat
Extreme Precipitation	9.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	9.64	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	14.9
AQ-PM	13.1
AQ-DPM	15.1
Drinking Water	32.9
Lead Risk Housing	18.8
Pesticides	53.9
Toxic Releases	46.9
Traffic	27.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	64.2
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	23.9
Solid Waste	35.7
Sensitive Population	—
Asthma	20.3
Cardio-vascular	15.2
Low Birth Weights	16.2
Socioeconomic Factor Indicators	—
Education	35.5
Housing	25.7
Linguistic	2.81
Poverty	18.2
Unemployment	87.7

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	63.45438214
Employed	68.92082638
Median HI	58.2574105
Education	—
Bachelor's or higher	78.03156679
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	53.75336841
Active commuting	65.93096369
Social	—
2-parent households	94.70037213
Voting	98.16501989
Neighborhood	—
Alcohol availability	28.15347106
Park access	39.72796099
Retail density	14.14089568
Supermarket access	61.82471449
Tree canopy	88.63082253
Housing	—
Homeownership	62.4534839
Housing habitability	72.55229052
Low-inc homeowner severe housing cost burden	46.23379956
Low-inc renter severe housing cost burden	48.64622097
Uncrowded housing	96.93314513
Health Outcomes	—

Insured adults	74.11779802
Arthritis	0.0
Asthma ER Admissions	83.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	52.0
Cognitively Disabled	29.3
Physically Disabled	87.9
Heart Attack ER Admissions	62.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	93.7
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.0
SLR Inundation Area	0.0
Children	82.0
Elderly	4.8

English Speaking	93.8
Foreign-born	12.1
Outdoor Workers	55.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	76.2
Traffic Density	29.0
Traffic Access	23.0
Other Indices	—
Hardship	13.6
Other Decision Support	—
2016 Voting	98.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	12.0
Healthy Places Index Score for Project Location (b)	84.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	City of Sonoma default clean energy provider is Sonoma Clean Power. Sonoma Clean Power 2023 rate = 138 lb/MWh.
Land Use	Total lot acreage, number of units, landscaping sf and number of parking spaces from provided PD (Montaldo Apartments PD). Building square footage provided.
Construction: Construction Phases	Information provided from applicant.
Construction: Off-Road Equipment	Information provided by project applicant with some defaults/default hours used.
Construction: Dust From Material Movement	Reduced acreage graded 2/3 as its a 2.5 acre site.
Construction: Trips and VMT	Building Const = Est. 121 concrete truck round trips (0.72 trips/day), Paving = Est. 25 asphalt truck round trips (5 trips/day).
Construction: On-Road Fugitive Dust	BAAQMD recommended BMPS - 15 mph.
Operations: Hearths	No hearths.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

25-011 Montaldo Apartments 19320 Sonoma Hwy, Sonoma BMPS T4F HRA Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	25-011 Montaldo Apartments 19320 Sonoma Hwy, Sonoma BMPS T4F HRA
Construction Start Date	1/1/2026
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	20.8
Location	19320 Sonoma Hwy, Sonoma, CA 95476, USA
County	Sonoma-San Francisco
City	Sonoma
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	980
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

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
Condo/Townhouse	50.0	Dwelling Unit	2.15	53,000	25,875	—	128	—

Parking Lot	24.0	Space	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	7.25	13.3	0.57	0.86	1.43	0.53	0.25	0.78	3,052
Mit.	7.15	3.23	0.06	0.86	0.91	0.06	0.25	0.31	3,052
% Reduced	1%	76%	90%	—	36%	89%	—	60%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	34.2	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,326
Mit.	34.1	3.24	0.63	7.67	7.77	0.48	3.94	4.04	5,326
% Reduced	< 0.5%	89%	49%	—	13%	58%	—	21%	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	1.97	4.18	0.19	0.38	0.57	0.17	0.16	0.33	882
Mit.	1.87	1.27	0.04	0.38	0.41	0.03	0.16	0.19	882
% Reduced	5%	70%	81%	—	27%	81%	—	43%	—
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.36	0.76	0.03	0.07	0.10	0.03	0.03	0.06	146
Mit.	0.34	0.23	0.01	0.07	0.08	0.01	0.03	0.03	146

% Reduced	5%	70%	81%	—	27%	81%	—	43%	—

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	1.61	13.3	0.57	0.86	1.43	0.53	0.25	0.78	3,052
2027	7.25	1.82	0.06	0.02	0.08	0.06	< 0.005	0.06	354
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	34.2	29.2	1.24	7.67	8.91	1.14	3.94	5.08	5,326
2027	7.24	1.82	0.06	0.02	0.08	0.06	< 0.005	0.06	353
2028	7.24	3.23	0.12	0.01	0.13	0.11	< 0.005	0.12	692
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.48	4.18	0.19	0.38	0.57	0.17	0.16	0.33	882
2027	1.97	1.05	0.03	0.01	0.04	0.03	< 0.005	0.03	198
2028	0.28	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—
2026	0.27	0.76	0.03	0.07	0.10	0.03	0.03	0.06	146
2027	0.36	0.19	0.01	< 0.005	0.01	0.01	< 0.005	0.01	32.8
2028	0.05	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.99

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	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—
2026	0.42	3.23	0.06	0.86	0.91	0.06	0.25	0.31	3,052

2027	7.15	1.12	0.01	0.02	0.03	0.01	< 0.005	0.02	354
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—
2026	34.1	3.24	0.63	7.67	7.77	0.48	3.94	4.04	5,326
2027	7.15	1.13	0.01	0.02	0.03	0.01	< 0.005	0.02	353
2028	7.15	1.30	0.05	0.01	0.05	0.04	< 0.005	0.05	692
Average Daily	—	—	—	—	—	—	—	—	—
2026	1.11	1.27	0.04	0.38	0.41	0.03	0.16	0.19	882
2027	1.87	0.69	0.01	0.01	0.01	0.01	< 0.005	0.01	198
2028	0.27	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	24.1
Annual	—	—	—	—	—	—	—	—	—
2026	0.20	0.23	0.01	0.07	0.08	0.01	0.03	0.03	146
2027	0.34	0.13	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	32.8
2028	0.05	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.99

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Unmit.	3.18	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.86	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily (Max)	—	—	—	—	—	—	—	—	—
Unmit.	2.81	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual (Max)	—	—	—	—	—	—	—	—	—
Unmit.	0.51	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Area	1.59	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.38
Total	3.18	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Area	1.34	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.38
Total	2.86	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	1.33	1.24	0.02	2.01	2.03	0.02	0.51	0.53	2,243
Area	1.46	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.75
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.38

Total	2.81	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Area	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Energy	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	82.2
Water	—	—	—	—	—	—	—	—	1.50
Waste	—	—	—	—	—	—	—	—	11.5
Refrig.	—	—	—	—	—	—	—	—	0.06
Total	0.51	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Area	1.59	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.38
Total	3.18	1.63	0.05	2.28	2.33	0.05	0.58	0.63	3,202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Mobile	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Area	1.34	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7

Refrig.	—	—	—	—	—	—	—	—	0.38
Total	2.86	1.79	0.05	2.28	2.33	0.05	0.58	0.63	3,065
Average Daily	—	—	—	—	—	—	—	—	—
Mobile	1.33	1.24	0.02	2.01	2.03	0.02	0.51	0.53	2,243
Area	1.46	0.01	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.75
Energy	0.02	0.33	0.03	—	0.03	0.03	—	0.03	496
Water	—	—	—	—	—	—	—	—	9.05
Waste	—	—	—	—	—	—	—	—	69.7
Refrig.	—	—	—	—	—	—	—	—	0.38
Total	2.81	1.58	0.05	2.01	2.06	0.04	0.51	0.56	2,822
Annual	—	—	—	—	—	—	—	—	—
Mobile	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Area	0.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.62
Energy	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	82.2
Water	—	—	—	—	—	—	—	—	1.50
Waste	—	—	—	—	—	—	—	—	11.5
Refrig.	—	—	—	—	—	—	—	—	0.06
Total	0.51	0.29	0.01	0.37	0.38	0.01	0.09	0.10	467

3. Construction Emissions Details

3.1. Demolition (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	34.2	3.55	0.68	—	0.68	0.53	—	0.53	726
Demolition	—	—	—	0.26	0.26	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.10	0.02	—	0.02	0.01	—	0.01	19.9
Demolition	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.29
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.26
Vendor	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	10.1
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.23
Vendor	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	0.28
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	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	0.05

3.2. Demolition (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	34.1	3.09	0.63	—	0.63	0.48	—	0.48	726
Demolition	—	—	—	0.26	0.26	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.08	0.02	—	0.02	0.01	—	0.01	19.9
Demolition	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.29
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.26
Vendor	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	10.1

Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.23
Vendor	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	0.28
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	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	0.05

3.3. Site Preparation (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.14	29.2	1.24	—	1.24	1.14	—	1.14	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	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	0.80	0.03	—	0.03	0.03	—	0.03	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	24.1
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.64
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.26
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	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

3.4. Site Preparation (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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	2.59	0.10	—	0.10	0.10	—	0.10	5,316
Dust From Material Movement	—	—	—	7.67	7.67	—	3.94	3.94	—
Onsite truck	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	0.07	< 0.005	—	< 0.005	< 0.005	—	< 0.005	146
Dust From Material Movement	—	—	—	0.21	0.21	—	0.11	0.11	—
Onsite truck	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	24.1
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.06	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.64
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.26
Vendor	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

Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.04
Vendor	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

3.5. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.51	13.1	0.57	—	0.57	0.53	—	0.53	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.51	13.1	0.57	—	0.57	0.53	—	0.53	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.34	0.10	—	0.10	0.09	—	0.09	534
Dust From Material Movement	—	—	—	0.15	0.15	—	0.04	0.04	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.43	0.02	—	0.02	0.02	—	0.02	88.5
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.10	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	16.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	34.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.10	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	16.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	34.7
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.94
Vendor	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.18
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.49
Vendor	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	1.02

3.6. 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	CO2e

Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	3.04	0.06	—	0.06	0.06	—	0.06	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	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	3.04	0.06	—	0.06	0.06	—	0.06	3,000
Dust From Material Movement	—	—	—	0.84	0.84	—	0.25	0.25	—
Onsite truck	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	0.54	0.01	—	0.01	0.01	—	0.01	534
Dust From Material Movement	—	—	—	0.15	0.15	—	0.04	0.04	—
Onsite truck	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	88.5
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
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Worker	0.10	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	16.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	34.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.10	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	16.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	34.7
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.02	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.94
Vendor	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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.18
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.49
Vendor	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	1.02

3.7. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	1.79	0.07	—	0.07	0.07	—	0.07	318
Onsite truck	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	1.79	0.07	—	0.07	0.07	—	0.07	318

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	0.03	—	0.03	0.03	—	0.03	144
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.01	—	0.01	0.01	—	0.01	23.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	20.2
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.04	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.8
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.50
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.99
Vendor	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.39
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.13
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.06
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19

3.8. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	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	0.47	0.01	—	0.01	0.01	—	0.01	144
Onsite truck	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	23.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	20.2
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.04	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.8

Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.1
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.50
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	8.99
Vendor	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.39
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.13
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.06
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19

3.9. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.72	0.06	—	0.06	0.06	—	0.06	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.72	0.06	—	0.06	0.06	—	0.06	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.80	0.03	—	0.03	0.03	—	0.03	147
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.15	0.01	—	0.01	< 0.005	—	< 0.005	24.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.8
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.11	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.5
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.9
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.46
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.02
Vendor	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.43
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.14
Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.06
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19

3.10. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	1.03	0.01	—	0.01	0.01	—	0.01	318
Onsite truck	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	0.48	0.01	—	0.01	0.01	—	0.01	147
Onsite truck	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	24.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Worker	0.12	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.8
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.8
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.45
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.11	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	19.5
Vendor	< 0.005	0.06	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.9
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.46
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.05	0.01	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.02
Vendor	< 0.005	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.43
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.14

Annual	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.06
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19

3.11. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	3.14	0.12	—	0.12	0.11	—	0.11	669
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	0.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.3
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	3.03
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	< 0.005	0.00	< 0.005	< 0.005	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.18
Vendor	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	0.46
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08

3.12. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.21	0.05	—	0.05	0.04	—	0.04	669
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	18.3
Paving	0.00	—	—	—	—	—	—	—	—

Onsite truck	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	3.03
Paving	0.00	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	< 0.005	0.00	< 0.005	< 0.005	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.8
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.18
Vendor	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	0.46
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08

3.13. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.83	0.02	—	0.02	0.02	—	0.02	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	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	0.21	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.6
Architectural Coatings	1.78	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.56
Architectural Coatings	0.32	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.97
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.89
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.97
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	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	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	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	0.16	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.6
Architectural Coatings	1.78	—	—	—	—	—	—	—	—
Onsite truck	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	5.56
Architectural Coatings	0.32	—	—	—	—	—	—	—	—
Onsite truck	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	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.97
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.89
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.97
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.81	0.02	—	0.02	0.01	—	0.01	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	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	4.98
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Onsite truck	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	0.82
Architectural Coatings	0.05	—	—	—	—	—	—	—	—
Onsite truck	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	3.82

Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	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

3.16. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.65	< 0.005	—	< 0.005	< 0.005	—	< 0.005	134
Architectural Coatings	7.11	—	—	—	—	—	—	—	—
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.98
Architectural Coatings	0.26	—	—	—	—	—	—	—	—
Onsite truck	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	0.82
Architectural Coatings	0.05	—	—	—	—	—	—	—	—
Onsite truck	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	3.82
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.14
Vendor	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
Annual	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.02
Vendor	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

3.17. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.20	1.86	0.06	—	0.06	0.05	—	0.05	433
Onsite truck	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	11.9
Onsite truck	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	1.97
Onsite truck	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	2.81
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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
Hauling	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	0.01
Vendor	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

3.18. 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	CO2e
Onsite	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.81	0.01	—	0.01	0.01	—	0.01	433
Onsite truck	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	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.9
Onsite truck	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	1.97
Onsite truck	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	2.81
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 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

Hauling	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	0.01
Vendor	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

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.58	1.27	0.02	2.28	2.30	0.02	0.58	0.60	2,619
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.51	1.46	0.02	2.28	2.30	0.02	0.58	0.60	2,489
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.24	0.23	< 0.005	0.37	0.37	< 0.005	0.09	0.10	371

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4

Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	13.1
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	13.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	79.4
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	79.4
Annual	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	13.1
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	13.1

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0

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	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.33	0.03	—	0.03	0.03	—	0.03	417
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0
Parking Lot	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	< 0.005	—	< 0.005	< 0.005	—	< 0.005	69.0

4.3. Area Emissions by Source

4.3.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.13	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61

Total	1.59	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.13	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—
Total	1.34	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	0.21	—	—	—	—	—	—	—	—
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	0.62

4.3.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.13	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—
Landscape Equipment	0.25	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61
Total	1.59	0.03	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.61

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Consumer Products	1.13	—	—	—	—	—	—	—	—
Architectural Coatings	0.20	—	—	—	—	—	—	—	—
Total	1.34	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	0.21	—	—	—	—	—	—	—	—
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	0.62

4.4. Water Emissions by Land Use

4.4.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.50
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	1.50

4.4.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	9.05
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	9.05
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	1.50
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	1.50

4.5. Waste Emissions by Land Use

4.5.1. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.5

4.5.2. 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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7

Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	69.7
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	69.7
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	11.5

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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.38
Total	—	—	—	—	—	—	—	—	0.38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.38
Total	—	—	—	—	—	—	—	—	0.38
Annual	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	0.06
Total	—	—	—	—	—	—	—	—	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	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.38
Total	—	—	—	—	—	—	—	—	0.38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.38
Total	—	—	—	—	—	—	—	—	0.38
Annual	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	0.06
Total	—	—	—	—	—	—	—	—	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	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	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	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	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	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	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	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	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	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	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	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	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	1/1/2026	1/14/2026	5.00	10.0	—
Site Preparation	Site Preparation	1/15/2026	1/28/2026	5.00	10.0	—
Grading	Grading	1/29/2026	4/29/2026	5.00	65.0	—
Building Construction	Building Construction	5/14/2026	8/25/2027	5.00	335	—
Paving	Paving	1/20/2028	2/2/2028	5.00	10.0	—
Architectural Coating	Architectural Coating	8/26/2027	1/19/2028	5.00	105	—
Trenching	Trenching	4/30/2026	5/13/2026	5.00	10.0	—

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	Dumpers/Tenders	Diesel	Average	1.00	8.00	16.0	0.38
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	4.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	7.38	36.0	0.38
Grading	Graders	Diesel	Average	2.00	7.38	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	1.23	367	0.40
Grading	Signal Boards	Diesel	Average	1.00	1.23	6.00	0.82
Grading	Tractors/Loaders/Back hoes	Diesel	Average	4.00	7.38	84.0	0.37
Grading	Skid Steer Loaders	Diesel	Average	1.00	1.23	71.0	0.37
Grading	Trenchers	Diesel	Average	1.00	7.38	40.0	0.50
Grading	Scrapers	Diesel	Average	1.00	1.23	423	0.48
Building Construction	Dumpers/Tenders	Diesel	Average	1.00	0.24	16.0	0.38
Building Construction	Forklifts	Diesel	Average	2.00	3.34	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	0.48	14.0	0.74
Building Construction	Sweepers/Scrubbers	Diesel	Average	1.00	4.30	36.0	0.46
Building Construction	Pressure Washers	Diesel	Average	1.00	1.19	14.0	0.30
Building Construction	Aerial Lifts	Diesel	Average	1.00	0.48	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	0.72	10.0	0.56
Building Construction	Air Compressors	Diesel	Average	2.00	1.43	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	6.00	89.0	0.36
Paving	Pressure Washers	Diesel	Average	1.00	8.00	14.0	0.30
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Average	1.00	8.00	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	Dumpers/Tenders	Diesel	Average	1.00	8.00	16.0	0.38
Demolition	Signal Boards	Diesel	Average	1.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Demolition	Crushing/Proc. Equipment	Gasoline	Average	2.00	4.00	12.0	0.85
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 4 Final	1.00	7.38	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	7.38	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	1.23	367	0.40
Grading	Signal Boards	Diesel	Average	1.00	1.23	6.00	0.82
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	7.38	84.0	0.37
Grading	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	1.23	71.0	0.37
Grading	Trenchers	Diesel	Tier 4 Final	1.00	7.38	40.0	0.50
Grading	Scrapers	Diesel	Tier 4 Final	1.00	1.23	423	0.48
Building Construction	Dumpers/Tenders	Diesel	Average	1.00	0.24	16.0	0.38
Building Construction	Forklifts	Diesel	Tier 4 Final	2.00	3.34	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	0.48	14.0	0.74
Building Construction	Sweepers/Scrubbers	Diesel	Tier 4 Final	1.00	4.30	36.0	0.46
Building Construction	Pressure Washers	Diesel	Average	1.00	1.19	14.0	0.30
Building Construction	Aerial Lifts	Diesel	Tier 4 Final	1.00	0.48	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	2.00	0.72	10.0	0.56
Building Construction	Air Compressors	Diesel	Tier 4 Final	2.00	1.43	37.0	0.48

Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Tier 4 Final	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	1.00	6.00	89.0	0.36
Paving	Pressure Washers	Diesel	Average	1.00	8.00	14.0	0.30
Architectural Coating	Air Compressors	Diesel	Tier 4 Final	1.00	6.00	37.0	0.48
Trenching	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	8.00	84.0	0.37
Trenching	Excavators	Diesel	Tier 4 Final	1.00	8.00	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	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	2.90	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	30.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	10.0	0.50	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	36.0	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	5.34	0.50	HHDT,MHDT
Building Construction	Hauling	0.72	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	5.00	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	7.20	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	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT
Trenching	Hauling	0.00	0.50	HHDT
Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	0.50	LDA,LDT1,LDT2
Demolition	Vendor	—	0.50	HHDT,MHDT
Demolition	Hauling	2.90	0.50	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	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	30.0	0.50	LDA,LDT1,LDT2
Grading	Vendor	—	0.50	HHDT,MHDT
Grading	Hauling	10.0	0.50	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	36.0	0.50	LDA,LDT1,LDT2
Building Construction	Vendor	5.34	0.50	HHDT,MHDT
Building Construction	Hauling	0.72	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	5.00	0.50	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	7.20	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	—	—	—	—
Trenching	Worker	5.00	0.50	LDA,LDT1,LDT2
Trenching	Vendor	—	0.50	HHDT,MHDT

Trenching	Hauling	0.00	0.50	HHDT
Trenching	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	107,325	35,775	0.00	0.00	—

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	2,500	—
Site Preparation	—	—	5.10	0.00	—
Grading	5,200	—	25.5	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

Condo/Townhouse	—	0%
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	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	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
Condo/Townhouse	366	407	314	133,016	2,874	3,196	2,466	1,044,685
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
Condo/Townhouse	366	407	314	133,016	2,874	3,196	2,466	1,044,685
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)

Condo/Townhouse	—
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)
Condo/Townhouse	—
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)
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

5.10.4. 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)
Condo/Townhouse	206,927	138	0.0330	0.0040	1,297,153
Parking Lot	0.00	138	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)
Condo/Townhouse	206,927	138	0.0330	0.0040	1,297,153
Parking Lot	0.00	138	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)
Condo/Townhouse	1,611,840	283,302
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	1,611,840	283,302
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	37.0	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	37.0	—
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
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.14.2. Mitigated

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

5.15.2. 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	11.3	annual days of extreme heat
Extreme Precipitation	9.95	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	9.64	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 (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
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	14.9
AQ-PM	13.1
AQ-DPM	15.1
Drinking Water	32.9
Lead Risk Housing	18.8
Pesticides	53.9
Toxic Releases	46.9
Traffic	27.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	64.2
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	23.9
Solid Waste	35.7
Sensitive Population	—
Asthma	20.3
Cardio-vascular	15.2
Low Birth Weights	16.2
Socioeconomic Factor Indicators	—
Education	35.5
Housing	25.7
Linguistic	2.81
Poverty	18.2
Unemployment	87.7

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	63.45438214
Employed	68.92082638
Median HI	58.2574105
Education	—
Bachelor's or higher	78.03156679
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	53.75336841
Active commuting	65.93096369
Social	—
2-parent households	94.70037213
Voting	98.16501989
Neighborhood	—
Alcohol availability	28.15347106
Park access	39.72796099
Retail density	14.14089568
Supermarket access	61.82471449
Tree canopy	88.63082253
Housing	—
Homeownership	62.4534839
Housing habitability	72.55229052
Low-inc homeowner severe housing cost burden	46.23379956
Low-inc renter severe housing cost burden	48.64622097
Uncrowded housing	96.93314513
Health Outcomes	—

Insured adults	74.11779802
Arthritis	0.0
Asthma ER Admissions	83.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	52.0
Cognitively Disabled	29.3
Physically Disabled	87.9
Heart Attack ER Admissions	62.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	93.7
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.0
SLR Inundation Area	0.0
Children	82.0
Elderly	4.8

English Speaking	93.8
Foreign-born	12.1
Outdoor Workers	55.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	76.2
Traffic Density	29.0
Traffic Access	23.0
Other Indices	—
Hardship	13.6
Other Decision Support	—
2016 Voting	98.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	12.0
Healthy Places Index Score for Project Location (b)	84.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	City of Sonoma default clean energy provider is Sonoma Clean Power. Sonoma Clean Power 2023 rate = 138 lb/MWh.
Land Use	Total lot acreage, number of units, landscaping sf and number of parking spaces from provided PD (Montaldo Apartments PD). Default building square footage used.
Construction: Construction Phases	Information provided from applicant.
Construction: Off-Road Equipment	Information provided by project applicant with some defaults/default hours used.
Construction: Dust From Material Movement	Reduced acreage graded 2/3 as its a 2.5 acre site.
Construction: Trips and VMT	Building Const = Est. 121 concrete truck round trips (0.72 trips/day), Paving = Est. 25 asphalt truck round trips (5 trips/day). HRA run = half a mile for localized emissions.
Construction: On-Road Fugitive Dust	BAAQMD recommended BMPS - 15 mph.
Operations: Hearths	No hearths.
Operations: Water and Waste Water	Wastewater treatment 100% aerobic - no septic tanks or lagoons.

Attachment 2: Project Construction Emissions and Health Risk Calculations

19320 Sonoma Highway, Sonoma, CA

DPM Emissions and Modeling Emission Rates - No Controls

Construction Year	Activity	DPM (ton/year)	Source Type	No. Sources	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Emissions per Point Source (g/s)
2026	DPM_CONST	0.0345	Point	371	69.1	0.02941	3.71E-03	9.99E-06
2027	DPM_CONST	0.0069	Point	371	13.8	0.00537	6.76E-04	1.82E-06
Total		***0.0414***			***82.9***	***0.0348***	***0.0044***	

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

DPM Construction Emissions and Modeling Emission Rates - With T4

Construction Year	Activity	DPM (ton/year)	Source Type	No. Sources	DPM Emissions (lb/yr)	DPM Emissions (lb/hr)	DPM Emissions (g/s)	Emissions per Point Source (g/s)
2026	DPM_CONST	0.0066	Point	371	13.2	0.00563	7.10E-04	1.91E-06
2027	DPM_CONST	0.0014	Point	371	2.8	0.00111	1.40E-04	3.77E-07
Total		***0.0080***			***16.1***	***0.0067***	***0.0008***	

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

19320 Sonoma Highway, Sonoma, CA

PM2.5 Fugitive Dust Emissions for Modeling - Basic Dust Controls Half Mile

Construction Year	Activity	Area Source	PM2.5 Emissions (ton/year)	(lb/yr)	(lb/hr)	(g/s)	Modeled Area (m^2)	PM2.5 Emission Rate $g/s/m^2$
2026	Construction	PM25_CONST	0.0285	56.9	0.02424	3.054E-03	8937.6	3.42E-07
2027	Construction	PM25_CONST	0.0003	0.7	0.00027	3.413E-05	8937.6	3.82E-09
		Construction Hours						
		Weekday hr/day =	9		(7am - 4pm)			
		days/yr =	varies					
		hours/year =	varies					

19320 Sonoma Highway, Sonoma, CA
Maximum DPM Cancer Risk and PM2.5 Calculations
Impacts at Off-Site Residential Receptors - 1.5 meter receptor height

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

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

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

Construction Cancer Risk by Year - Maximum Impact Receptor Location

		Exposure Information				Infant/Child	Adult					Maximum	
			DPM Conc (ug/m3)		Age	Cancer	Modeled DPM Conc (ug/m3)		Age	Adult Cancer			
Exposure Year	Exposure Duration (years)	Age	Year	Annual	Sensitivity Factor	Risk (per million)	Year	Annual	Sensitivity Factor	Risk (per million)	HI	Fugitive PM2.5	Total PM2.5
0	0.25	-0.25 - 0*	2026	0.0413	10	0.56							
1	1	0 - 1	2026	0.0413	10	6.78	2026	0.0413	1	0.119	0.008	0.2521	0.289
2	1	1 - 2	2027	0.0075	10	1.24	2027	0.0075	1	0.02	0.002	0.0143	0.010
3	1	2 - 3	2028	0.0000	3	0.00	2028	0.0000	1	0.00			
4	1	3 - 4	2029	0.0000	3	0.00	2029	0.0000	1	0.00			
5	1	4 - 5	2030	0.0000	3	0.00	2030	0.0000	1	0.00			
6	1	5 - 6	2031	0.0000	3	0.00	2031	0.0000	1	0.00			
7	1	6 - 7	2032	0.0000	3	0.00	2032	0.0000	1	0.00			
8	1	7 - 8	2033	0.0000	3	0.00	2033	0.0000	1	0.00			
9	1	8 - 9	2034	0.0000	3	0.00	2034	0.0000	1	0.00			
10	1	9 - 10	2035	0.0000	3	0.00	2035	0.0000	1	0.00			
11	1	10 - 11	2036	0.0000	3	0.00	2036	0.0000	1	0.00			
12	1	11 - 12	2037	0.0000	3	0.00	2037	0.0000	1	0.00			
13	1	12 - 13	2038	0.0000	3	0.00	2038	0.0000	1	0.00			
14	1	13 - 14	2039	0.0000	3	0.00	2039	0.0000	1	0.00			
15	1	14 - 15	2040	0.0000	3	0.00	2040	0.0000	1	0.00			
16	1	15 - 16	2041	0.0000	3	0.00	2041	0.0000	1	0.00			
17	1	16-17	2042	0.0000	1	0.00	2042	0.0000	1	0.00			
18	1	17-18	2043	0.0000	1	0.00	2043	0.0000	1	0.00			
19	1	18-19	2044	0.0000	1	0.00	2044	0.0000	1	0.00			
20	1	19-20	2045	0.0000	1	0.00	2045	0.0000	1	0.00			
21	1	20-21	2046	0.0000	1	0.00	2046	0.0000	1	0.00			
22	1	21-22	2047	0.0000	1	0.00	2047	0.0000	1	0.00			
23	1	22-23	2048	0.0000	1	0.00	2048	0.0000	1	0.00			
24	1	23-24	2049	0.0000	1	0.00	2049	0.0000	1	0.00			
25	1	24-25	2050	0.0000	1	0.00	2050	0.0000	1	0.00			
26	1	25-26	2051	0.0000	1	0.00	2051	0.0000	1	0.00			
27	1	26-27	2052	0.0000	1	0.00	2052	0.0000	1	0.00			
28	1	27-28	2053	0.0000	1	0.00	2053	0.0000	1	0.00			
29	1	28-29	2054	0.0000	1	0.00	2054	0.0000	1	0.00			
30	1	29-30	2055	0.0000	1	0.00	2055	0.0000	1	0.00			
Total Increased Cancer Risk						**8.58**				**0.140**			

* Third trimester of pregnancy

19320 Sonoma Highway, Sonoma, CA
Maximum DPM Cancer Risk and PM2.5 Calculations
Impacts at Off-Site Residential Receptors - 4.6 meter receptor height

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

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

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

Construction Cancer Risk by Year - Maximum Impact Receptor Location

		Exposure Information				Infant/Child	Adult			Adult		Maximum	
	Exposure		DPM Conc (ug/m3)		Age	Cancer	Modeled DPM Conc (ug/m3)		Age	Cancer			
Exposure Year	Duration (years)	Age	Year	Annual	Sensitivity Factor	Risk (per million)	Year	Annual	Sensitivity Factor	Risk (per million)		Fugitive PM2.5	Total PM2.5
0	0.25	-0.25 - 0*	2026	0.0532	10	0.72					HI		
1	1	0 - 1	2026	0.0532	10	8.74	2026	0.0532	1	0.153	0.011	0.1214	0.175
2	1	1 - 2	2027	0.0097	10	1.59	2027	0.0097	1	0.03	0.002	0.0014	0.011
3	1	2 - 3	2028	0.0000	3	0.00	2028	0.0000	1	0.00			
4	1	3 - 4	2029	0.0000	3	0.00	2029	0.0000	1	0.00			
5	1	4 - 5	2030	0.0000	3	0.00	2030	0.0000	1	0.00			
6	1	5 - 6	2031	0.0000	3	0.00	2031	0.0000	1	0.00			
7	1	6 - 7	2032	0.0000	3	0.00	2032	0.0000	1	0.00			
8	1	7 - 8	2033	0.0000	3	0.00	2033	0.0000	1	0.00			
9	1	8 - 9	2034	0.0000	3	0.00	2034	0.0000	1	0.00			
10	1	9 - 10	2035	0.0000	3	0.00	2035	0.0000	1	0.00			
11	1	10 - 11	2036	0.0000	3	0.00	2036	0.0000	1	0.00			
12	1	11 - 12	2037	0.0000	3	0.00	2037	0.0000	1	0.00			
13	1	12 - 13	2038	0.0000	3	0.00	2038	0.0000	1	0.00			
14	1	13 - 14	2039	0.0000	3	0.00	2039	0.0000	1	0.00			
15	1	14 - 15	2040	0.0000	3	0.00	2040	0.0000	1	0.00			
16	1	15 - 16	2041	0.0000	3	0.00	2041	0.0000	1	0.00			
17	1	16-17	2042	0.0000	1	0.00	2042	0.0000	1	0.00			
18	1	17-18	2043	0.0000	1	0.00	2043	0.0000	1	0.00			
19	1	18-19	2044	0.0000	1	0.00	2044	0.0000	1	0.00			
20	1	19-20	2045	0.0000	1	0.00	2045	0.0000	1	0.00			
21	1	20-21	2046	0.0000	1	0.00	2046	0.0000	1	0.00			
22	1	21-22	2047	0.0000	1	0.00	2047	0.0000	1	0.00			
23	1	22-23	2048	0.0000	1	0.00	2048	0.0000	1	0.00			
24	1	23-24	2049	0.0000	1	0.00	2049	0.0000	1	0.00			
25	1	24-25	2050	0.0000	1	0.00	2050	0.0000	1	0.00			
26	1	25-26	2051	0.0000	1	0.00	2051	0.0000	1	0.00			
27	1	26-27	2052	0.0000	1	0.00	2052	0.0000	1	0.00			
28	1	27-28	2053	0.0000	1	0.00	2053	0.0000	1	0.00			
29	1	28-29	2054	0.0000	1	0.00	2054	0.0000	1	0.00			
30	1	29-30	2055	0.0000	1	0.00	2055	0.0000	1	0.00			
Total Increased Cancer Risk						**11.06**				**0.181**			

* Third trimester of pregnancy

19320 Sonoma Highway, Sonoma, CA
Mitigated DPM Cancer Risk and PM2.5 Calculations
Impacts at Off-Site Residential Receptors - 4.6 meter receptor height

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

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

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

Construction Cancer Risk by Year - Maximum Impact Receptor Location

		Exposure Information				Infant/Child	Adult			Adult		Maximum	
	Exposure		DPM Conc (ug/m3)		Age	Cancer	Modeled DPM Conc (ug/m3)		Age	Cancer			
Exposure	Duration				Sensitivity	Risk			Sensitivity	Risk			
Year	(years)	Age	Year	Annual	Factor	(per million)	Year	Annual	Factor	(per million)		Fugitive	Total
											HI	PM2.5	PM2.5
0	0.25	-0.25 - 0*	2026	0.0102	10	0.14							
1	1	0 - 1	2026	0.0102	10	1.67	2026	0.0102	1	0.029	0.002	0.2650	0.269
2	1	1 - 2	2027	0.0094	10	1.55	2027	0.0094	1	0.03	0.002	0.0143	0.016
3	1	2 - 3	2028	0.0000	3	0.00	2028	0.0000	1	0.00			
4	1	3 - 4	2029	0.0000	3	0.00	2029	0.0000	1	0.00			
5	1	4 - 5	2030	0.0000	3	0.00	2030	0.0000	1	0.00			
6	1	5 - 6	2031	0.0000	3	0.00	2031	0.0000	1	0.00			
7	1	6 - 7	2032	0.0000	3	0.00	2032	0.0000	1	0.00			
8	1	7 - 8	2033	0.0000	3	0.00	2033	0.0000	1	0.00			
9	1	8 - 9	2034	0.0000	3	0.00	2034	0.0000	1	0.00			
10	1	9 - 10	2035	0.0000	3	0.00	2035	0.0000	1	0.00			
11	1	10 - 11	2036	0.0000	3	0.00	2036	0.0000	1	0.00			
12	1	11 - 12	2037	0.0000	3	0.00	2037	0.0000	1	0.00			
13	1	12 - 13	2038	0.0000	3	0.00	2038	0.0000	1	0.00			
14	1	13 - 14	2039	0.0000	3	0.00	2039	0.0000	1	0.00			
15	1	14 - 15	2040	0.0000	3	0.00	2040	0.0000	1	0.00			
16	1	15 - 16	2041	0.0000	3	0.00	2041	0.0000	1	0.00			
17	1	16-17	2042	0.0000	1	0.00	2042	0.0000	1	0.00			
18	1	17-18	2043	0.0000	1	0.00	2043	0.0000	1	0.00			
19	1	18-19	2044	0.0000	1	0.00	2044	0.0000	1	0.00			
20	1	19-20	2045	0.0000	1	0.00	2045	0.0000	1	0.00			
21	1	20-21	2046	0.0000	1	0.00	2046	0.0000	1	0.00			
22	1	21-22	2047	0.0000	1	0.00	2047	0.0000	1	0.00			
23	1	22-23	2048	0.0000	1	0.00	2048	0.0000	1	0.00			
24	1	23-24	2049	0.0000	1	0.00	2049	0.0000	1	0.00			
25	1	24-25	2050	0.0000	1	0.00	2050	0.0000	1	0.00			
26	1	25-26	2051	0.0000	1	0.00	2051	0.0000	1	0.00			
27	1	26-27	2052	0.0000	1	0.00	2052	0.0000	1	0.00			
28	1	27-28	2053	0.0000	1	0.00	2053	0.0000	1	0.00			
29	1	28-29	2054	0.0000	1	0.00	2054	0.0000	1	0.00			
30	1	29-30	2055	0.0000	1	0.00	2055	0.0000	1	0.00			
Total Increased Cancer Risk						**3.36**				**0.056**			

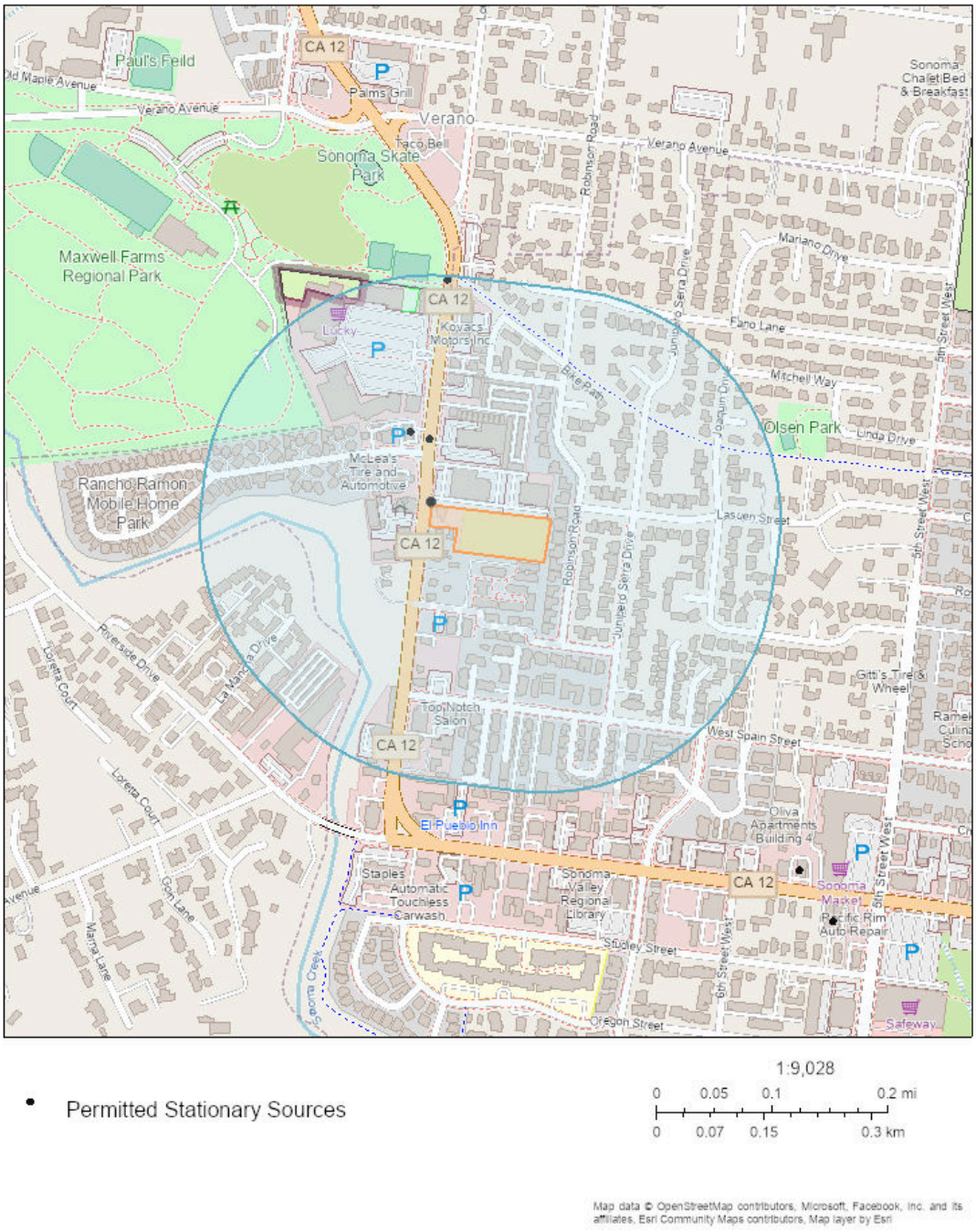
* Third trimester of pregnancy

Screening Report

Area of Interest (AOI) Information

Area : 5,052,798.65 ft²

Jan 27 2025 10:39:16 Pacific Standard Time



Summary

Name	Count	Area(ft²)	Length(ft)
Permitted Stationary Sources	3	N/A	N/A

Permitted Stationary Sources

#	Address	Cancer_Ris	Chronic_Ha	City	County
1	19181 Sonoma Hwy	0.03	0.00	Sonoma	Sonoma
2	19285 HIGHWAY 12	0.00	0.00	Sonoma	Sonoma
3	19249 Highway 12	21.88	0.10	Sonoma	Sonoma

#	Details	Facility_I	Facility_N	Latitude	Longitude
1	Generator	18339	Lucky #778	38.30	-122.47
2	*No Data*	200194	G & C Auto Body	38.30	-122.48
3	Gas Dispensing Facility	112205-1	Cachita LLC	38.30	-122.48

#	NAICS	NAICS_Indu	NAICS_Sect	NAICS_Subs	PM25
1	445110	Supermarkets and Other Grocery (except Convenience) Stores	Retail Trade	Food and Beverage Stores	0.00
2	811121	Automotive Body, Paint, and Interior Repair and Maintenance	Other Services (except Public Administration)	Repair and Maintenance	0.00
3	238350	Finish Carpentry Contractors	Construction	Specialty Trade Contractors	0.00

#	State	Zip	Count
1	CA	95476	1
2	CA	95476	1
3	CA	95476	1

NOTE: A larger buffer than 1,000 may be warranted depending on proximity to significant sources.

Stationary Source Data Request Form

1) Instructions

This form is meant to provide additional detail found on the *Stationary Source Screening Map.* Please provide all the information below and submit this form with a csv. file from the Stationary Source Screening Report (found on the map) to Public Records Request. Facility level emissions are publicly available on the Air Resources Board California Emissions Inventory Development and Reporting System website. All other CEQA related questions can be emailed to CEQA@baaqmd.gov. **At minimum,** requesters are required to submit this form and the screening report csv. to make a request. **Failure to do so may delay your request.** Requests for meteorological data or other data unrelated to the information on the *Stationary Source Screening Map* should be made in a separate Public Records Request.

2) Requester Information

Public Records Request #	2025-01-0223	Project Name	Montaldo Apartments
Contact Name	Jordyn Bauer	Project Location: (City, County)	19320 Sonoma Hwy, Sonoma,
Contact Phone	707-794-0400 x106	Contact Email	jbauer@illingworthrodkin.com

3) Procedural Steps

a. Create a Public Records Request to get a request # (ex. 2022-01-0001).
b. Go to the Stationary Sources Screening Map on the CEQA Resources page.
c. Select "Draw" or "Coordinate" (top left).
d. Draw project parcel or place marker.
e. Indicate the desired buffer distance.
f. Click "Report".
g. Download .CSV and print boundary pdf.
h. Email this form and all supporting files to Public Records Request email with your request #. In the **email subject line** put "Public Records Number XXXX-XX-XXXX: Stationary Source Request".

4) Data Request Checklist

a. Is the Stationary Source Screen Map report csv. attached? ☑

b. Is a map or image of your Project boundary attached? ☑
Note: If not provided, staff will only confirm the data contained within the Stationary Source Screening Map report.

c. Other Request Details:

Hello,
I have a stationary source request where 1 of the 3 sources (#112205-1) is a gas station. In order to use the CARB gas station tool, we need to know the gas station's annual throughput (gallons/year). Can you please provide sources

From: BAAQMD CEQA
To: Jordyn Bauer
Cc: Public Records
Subject: RE: Public Records Request No. 2025-01-0223 CRM:0444211
Date: Wednesday, January 29, 2025 2:52:12 PM
Attachments: 112205-1 Results.csv
2025 - 112205 - PermitToOperate.pdf

Hello Jordyn,

Thank you for your email. Please find requested files and Permit to Operate for Facility #112205-1 attached.

#112205-1 - annual gasoline throughput shall not exceed **5,300,000 million gallons** in any consecutive 12-month period.

Thank you,

BAAQMD CEQA Team

@Public Records This completes this request.

From: Public Records <PublicRecords@baaqmd.gov>
Sent: Tuesday, January 28, 2025 2:32 PM
To: BAAQMD CEQA <ceqa@baaqmd.gov>
Subject: FW: Public Records Request No. 2025-01-0223 CRM:0444211

Hello,

I am forwarding you a public records request so you can help me respond to the requester.

On 1/27/2025, the District received a public records request from:

Jordyn Bauer

8054583478
jbauer@illingworthrodkin.com

The requester asked for the following information:

19249 Highway 12, Sonoma
#112205-1

#112205-1 Cachita LLC
19249 Highway 12
Sonoma

Request Details: Hello, source #112205-1 is a gas station. Can you please provide source #112205-1 annual throughput emissions? Thank you!

Please feel free to contact the requester if you need additional information. Let me know whether we have the information and when you think it will be available. I need to let the requester know within 10 days of the request whether we have disclosable records and, if we do, when we will make them available. Also, let me know if we will need to do any programming or other work for which we may need to charge the requester. If you have any questions, please e-mail or call me at x4784.

Thank you for your help.

Best,
Public Records Staff
Public Records Section

2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool
Version 1.0 - February 18, 2022

Required Value	User Defined Input	Instructions
Annual Throughput (gallons/year)	5300000	Enter your gas station's annual throughput in gallons of gasoline dispensed per year.
Hourly Dispensing Throughput (gallons/hour)	2000	The tool will calculate the maximum hourly vehicle fueling throughput based on annual throughput as defined by Table 10 of the 2020 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Document (Technical Guidance). If a different value is desired please enter it into cell L4.
Hourly Loading Throughput (gallons/hour)	8800	The tool will calculate the maximum hourly loading throughput based on annual throughput as defined by Table 10 of the Technical Guidance. If a different value is desired please enter it into cell L5.
Meteorological Data	San Jose	Select appropriate meteorological data. Met sets provided include 2 rural (Redding and Lancaster) and 4 urban (Fresno, Ontario, San Diego, and San Jose) locations. Use whichever best correlates to your location. If you would like to use site-specific meteorological data please refer to the Variable Met Tool.
Distance to Nearest Resident (meters)	255	Enter the distance to the nearest residential receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Nearest Business (meters)		Enter the distance to the nearest worker receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Acute Receptor (meters)	255	Enter the distance where acute impacts are expected in meters as measured from the edge of the station canopy. This can be the distance to the property boundary, nearest resident, nearest worker, or any other user defined location. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Control Scenario	EVR Phase I & EVR Phase II	Select the appropriate control scenario for your gas station. Please refer to technical Guidance for an explanation of the different control scenarios. Almost all gas stations in California are equipped with EVR Phase I and EVR Phase II controls.
Include Building Downwash Adjustments	yes	Building downwash may over estimate risk results. High results should be investigated further through site-specific health risk assessment.
Risk Value	**Results**	
Max Residential Cancer Risk (chances/million)	0.73	
Max Worker Cancer Risk (chances/million)		2/5/2025 4:29 PM
Chronic HI	#N/A	
Acute HI	0.05	

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	**1/31/2025**
Contact Name	Jordyn Bauer
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x106
Email	jbauer@illingworthrodkin.com
Project Name	Mantaldo Apartments
Address	19320 Sooma Highway 12
City	Sonoma
County	Sonoma
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	50
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 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	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
	18339	Lucky #778	19181 Sonoma Hwy	0.03	0	0		Generator		2022 Dataset	0.04	0.001	0.00000	0.00000
											0.42	0.00	0.00000	0.0000
											0.29	0.00	0.000	0.0000

Project MEI

Project Site

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
1100	18339	0.04	0.001	0.00000	0.00000

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.

8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
    a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less. To be
    c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010.
    Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
    d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect the number of
    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.

Attachment 3: Cumulative Screening Information and Modeling Calculations

25-011 19320 Sonoma Highway, Sonoma, CA - Roadway Impacts Onsite
AERMOD Risk Modeling Parameters and Maximum Concentrations

Emissions Years	2028
Receptor Information	
Number of Receptors	
Receptor Height (in m) =	Varies
Receptor Distances =	Varies
Meteorological Conditions	
BAAQMD Sonoma Met Data	2013 - 2017
Land Use Classification	urban
Wind Speed =	variable
Wind Direction =	variable

Highway 12 - Maximum Onsite Concentrations - Floor 1

Meteorological Data Years	TAC Concentrations (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2013 - 2017	0.00374	0.14808	0.1951

Meteorological Data Years	PM2.5 Concentrations (µg/m^3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013 - 2017	0.14988	0.13786	0.01202

Highway 12 - Maximum Onsite Concentrations - Floor 2

Meteorological Data Years	TAC Concentrations (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2013 - 2017	0.0033	0.09325	0.12286

Meteorological Data Years	PM2.5 Concentrations (µg/m^3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013 - 2017	0.09439	0.08682	0.00757

Highway 12 - Maximum Onsite Concentrations - Floor 3

Meteorological Data Years	TAC Concentrations (µg/m^3)		
	DPM	Exhaust TOG	Evaporative TOG
2013 - 2017	0.00206	0.04405	0.05804

Meteorological Data Years	PM2.5 Concentrations (µg/m^3)		
	Total PM2.5	Fugitive PM2.5	Vehicle PM2.5
2013 - 2017	0.04459	0.04101	0.00358

25-011 19320 Sonoma Highway, Sonoma, CA - Roadway Impacts Onsite
Maximum DPM Cancer Risk and PM2.5 Calculations
First Floor receptor height (1.5m)

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

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

Values

	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
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

Roadway Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Age Sensitivity Factor**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	**TOTAL**
0	0.25	-0.25 - 0*	2029	10	0.0037	0.1481	0.1951	0.051	0.011	0.0009	0.063
1	1	0 - 1	2029	10	0.0037	0.1481	0.1951	0.614	0.139	0.0108	0.764
2	1	1 - 2	2030	10	0.0037	0.1481	0.1951	0.614	0.139	0.0108	0.764
3	1	2 - 3	2031	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
4	1	3 - 4	2032	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
5	1	4 - 5	2033	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
6	1	5 - 6	2034	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
7	1	6 - 7	2035	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
8	1	7 - 8	2036	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
9	1	8 - 9	2037	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
10	1	9 - 10	2038	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
11	1	10 - 11	2039	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
12	1	11 - 12	2040	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
13	1	12 - 13	2041	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
14	1	13 - 14	2042	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
15	1	14 - 15	2043	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
16	1	15 - 16	2044	3	0.0037	0.1481	0.1951	0.097	0.022	0.0017	0.120
17	1	16-17	2045	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
18	1	17-18	2046	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
19	1	18-19	2047	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
20	1	19-20	2048	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
21	1	20-21	2049	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
22	1	21-22	2050	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
23	1	22-23	2051	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
24	1	23-24	2052	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
25	1	24-25	2053	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
26	1	25-26	2054	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
27	1	26-27	2055	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
28	1	27-28	2056	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
29	1	28-29	2057	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
30	1	29-30	2058	1	0.0037	0.1481	0.1951	0.011	0.002	0.0002	0.013
Total Increased Cancer Risk								2.78	0.629	0.049	**3.46**

* Third trimester of pregnancy

Maximum	
Hazard Index	**Total PM2.5 (µg/m3)**
0.00075	0.150

25-011 19320 Sonoma Highway, Sonoma, CA - Roadway Impacts Onsite
Maximum DPM Cancer Risk and PM2.5 Calculations
Second Floor receptor height (4.6m)

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

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

Values

	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
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

Roadway Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			TOTAL
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Age Sensitivity Factor**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	
0	0.25	-0.25 - 0*	2029	10	0.0033	0.0933	0.1229	0.045	0.007	0.0006	0.05
1	1	0 - 1	2029	10	0.0033	0.0933	0.1229	0.542	0.087	0.0068	0.64
2	1	1 - 2	2030	10	0.0033	0.0933	0.1229	0.542	0.087	0.0068	0.64
3	1	2 - 3	2031	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
4	1	3 - 4	2032	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
5	1	4 - 5	2033	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
6	1	5 - 6	2034	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
7	1	6 - 7	2035	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
8	1	7 - 8	2036	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
9	1	8 - 9	2037	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
10	1	9 - 10	2038	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
11	1	10 - 11	2039	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
12	1	11 - 12	2040	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
13	1	12 - 13	2041	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
14	1	13 - 14	2042	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
15	1	14 - 15	2043	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
16	1	15 - 16	2044	3	0.0033	0.0933	0.1229	0.085	0.014	0.0011	0.10
17	1	16-17	2045	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
18	1	17-18	2046	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
19	1	18-19	2047	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
20	1	19-20	2048	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
21	1	20-21	2049	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
22	1	21-22	2050	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
23	1	22-23	2051	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
24	1	23-24	2052	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
25	1	24-25	2053	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
26	1	25-26	2054	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
27	1	26-27	2055	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
28	1	27-28	2056	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
29	1	28-29	2057	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
30	1	29-30	2058	1	0.0033	0.0933	0.1229	0.009	0.002	0.0001	0.011
Total Increased Cancer Risk								2.46	0.396	0.031	**2.88**

Maximum	
Hazard Index	**Total PM2.5 (µg/m3)**
0.0007	0.094

* Third trimester of pregnancy

25-011 19320 Sonoma Highway, Sonoma, CA - Roadway Impacts Onsite
Maximum DPM Cancer Risk and PM2.5 Calculations
Third Floor receptor height (7.6m)

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

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

Values

	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
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

Roadway Cancer Risk by Year - Maximum Impact Receptor Location

Maximum - Exposure Information					Concentration (ug/m3)			Cancer Risk (per million)			
Exposure Year	**Exposure Duration (years)**	**Age**	**Year**	**Age Sensitivity Factor**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	**DPM**	**Exhaust TOG**	**Evaporative TOG**	**TOTAL**
0	0.25	-0.25 - 0*	2029	10	0.0021	0.0441	0.0580	0.028	0.003	0.0003	0.03
1	1	0 - 1	2029	10	0.0021	0.0441	0.0580	0.338	0.041	0.0032	0.38
2	1	1 - 2	2030	10	0.0021	0.0441	0.0580	0.338	0.041	0.0032	0.38
3	1	2 - 3	2031	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
4	1	3 - 4	2032	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
5	1	4 - 5	2033	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
6	1	5 - 6	2034	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
7	1	6 - 7	2035	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
8	1	7 - 8	2036	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
9	1	8 - 9	2037	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
10	1	9 - 10	2038	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
11	1	10 - 11	2039	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
12	1	11 - 12	2040	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
13	1	12 - 13	2041	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
14	1	13 - 14	2042	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
15	1	14 - 15	2043	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
16	1	15 - 16	2044	3	0.0021	0.0441	0.0580	0.053	0.007	0.0005	0.06
17	1	16-17	2045	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
18	1	17-18	2046	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
19	1	18-19	2047	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
20	1	19-20	2048	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
21	1	20-21	2049	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
22	1	21-22	2050	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
23	1	22-23	2051	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
24	1	23-24	2052	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
25	1	24-25	2053	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
26	1	25-26	2054	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
27	1	26-27	2055	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
28	1	27-28	2056	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
29	1	28-29	2057	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
30	1	29-30	2058	1	0.0021	0.0441	0.0580	0.006	0.001	0.0001	0.007
Total Increased Cancer Risk								1.53	0.187	0.015	**1.73**

Maximum	
Hazard Index	**Total PM2.5 (µg/m3)**
0.0004	0.045

* Third trimester of pregnancy

2022 CARB & CAPCOA Gasoline Service Station Industrywide Risk Assessment Look-up Tool
Version 1.0 - February 18, 2022

Required Value	User Defined Input	Instructions
Annual Throughput (gallons/year)	5300000	Enter your gas station's annual throughput in gallons of gasoline dispensed per year.
Hourly Dispensing Throughput (gallons/hour)	2000	The tool will calculate the maximum hourly vehicle fueling throughput based on annual throughput as defined by Table 10 of the 2020 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Document (Technical Guidance). If a different value is desired please enter it into cell L4.
Hourly Loading Throughput (gallons/hour)	8800	The tool will calculate the maximum hourly loading throughput based on annual throughput as defined by Table 10 of the Technical Guidance. If a different value is desired please enter it into cell L5.
Meteorological Data	San Jose	Select appropriate meteorological data. Met sets provided include 2 rural (Redding and Lancaster) and 4 urban (Fresno, Ontario, San Diego, and San Jose) locations. Use whichever best correlates to your location. If you would like to use site-specific meteorological data please refer to the Variable Met Tool.
Distance to Nearest Resident (meters)	133	Enter the distance to the nearest residential receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Nearest Business (meters)		Enter the distance to the nearest worker receptor in meters as measured from the edge of the station canopy. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Distance to Acute Receptor (meters)	133	Enter the distance where acute impacts are expected in meters as measured from the edge of the station canopy. This can be the distance to the property boundary, nearest resident, nearest worker, or any other user defined location. Please note that the value must be between 10 and 1000 meters. The distance you input will round down to the nearest receptor distance used in the Technical Guidance (e.g., 19m will return value at 10m distance).
Control Scenario	EVR Phase I & EVR Phase II	Select the appropriate control scenario for your gas station. Please refer to technical Guidance for an explanation of the different control scenarios. Almost all gas stations in California are equipped with EVR Phase I and EVR Phase II controls.
Include Building Downwash Adjustments	yes	Building downwash may over estimate risk results. High results should be investigated further through site-specific health risk assessment.
Risk Value	**Results**	
Max Residential Cancer Risk (chances/million)	2.53	
Max Worker Cancer Risk (chances/million)		2/5/2025 4:29 PM
Chronic HI	#N/A	
Acute HI	0.25	

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	**1/31/2025**
Contact Name	Jordyn Bauer
Affiliation	Illingworth & Rodkin, Inc.
Phone	707-794-0400 x106
Email	jbauer@illingworthrodkin.com
Project Name	Mantaldo Apartments
Address	19320 Sooma Highway 12
City	Sonoma
County	Sonoma
Type (residential, commercial, mixed use, industrial, etc.)	Residential
Project Size (# of units or building square feet)	50
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 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	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
	18339	Lucky #778	19181 Sonoma Hwy	0.03	0	0		Generator		2022 Dataset	0.04	0.001	0.00000	0.00000
											0.42	0.00	0.00000	0.0000
											0.29	0.00	0.000	0.0000

Project MEI

Project Site

Distance from Receptor (feet) or MEI[1]	FACID (Plant No.)	Distance Adjustment Multiplier	Adjusted Cancer Risk Estimate	Adjusted Hazard Risk	Adjusted PM2.5
1040	18339	0.04	0.001	0.00000	0.00000

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.

8. Engineer who completed the HRSA. For District purposes only.
9. All HRSA completed before 1/5/2010 need to be multiplied by an age sensitivity factor of 1.7.
10. The HRSA "Chronic Health" number represents the Hazard Index.
11. Further information about common sources:
    a. Sources that only include diesel internal combustion engines can be adjusted using the BAAQMD's Diesel Multiplier worksheet.
    b. The risk from natural gas boilers used for space heating when <25 MM BTU/hr would have an estimated cancer risk of one in a million or less, and a chronic hazard index of 0.003 or less. To be
    c. BAAQMD Reg 11 Rule 16 required that all co-residential (sharing a wall, floor, ceiling or is in the same building as a residential unit) dry cleaners cease use of perc on July 1, 2010. Therefore, there is no cancer risk, hazard or PM2.5 concentrations from co-residential dry cleaning businesses in the BAAQMD.
    d. Non co-residential dry cleaners must phase out use of perc by Jan. 1, 2023. Therefore, the risk from these dry cleaners does not need to be factored in over a 70-year period, but instead should reflect the number of
    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.