

Appendix A

AIR QUALITY/GREENHOUSE GAS TECHNICAL REPORT

AIR QUALITY/GHG TECHNICAL REPORT

Parkway Village Specific Plan



Prepared for
City of Lancaster

Submitted by



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ATTACHMENTS

Attachment 1: AQ/GHG Emissions Inventory

1. INTRODUCTION

This technical report provides the results of an air quality and greenhouse gas (GHG) emissions assessment for the proposed Parkway Village Specific Plan. The assessment quantifies the emissions due to the project and discusses the extent of potential impacts to air quality and impacts due to GHG emissions. Mitigation measures are recommended to reduce potentially significant air quality impacts; the mitigation would require the project owner to control fugitive dust to control off-road equipment exhaust emissions.

1.1. Project Background

The Parkway Village Specific Plan (Project or PVSP) is a plan for the development of a 434.7-acre area in the City of Lancaster. The development planned for this area includes low-density residential, high-density residential, public, and commercial land uses. The construction of the PVSP would also require installation of utilities (water, power, sewer, etc.) roads, and landscaping.

1.2. Surrounding Land Uses

The PVSP area is mainly flat and largely undeveloped. Existing development within the Specific Plan Area limits includes the Kaiser Permanente Antelope Valley Medical Offices and various commercial and storage uses located along the southern site boundary (West Avenue L); a church located at in the southwestern corner of 5th Street West and Avenue K along the northern site boundary; a mix of retail and restaurant uses, a retirement village, a bowling alley, a recreational vehicle and trailer park, and a motel located along the eastern site boundary (Sierra Highway); and an auto repair shop and solar farm along the western site boundary. A 1.3-acre parcel along the 5th Street West right-of-way (ROW) is owned by Los Angeles County and contains a small waterworks facility. Amargosa Creek is a dry wash confined within earthen banks that flows from roughly the southern portion of the site toward the northwestern corner. The project will include the construction of new sensitive receptor locations, including residences, schools, parks, and medical facilities.

2. SETTING

Criteria Air Pollutants. Air quality is determined by measuring ambient concentrations of certain criteria air pollutants. The criteria pollutants are ozone, respirable particulate matter (PM₁₀), fine particulate matter (PM_{2.5}), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead. Ozone is an example of a secondary pollutant that is not emitted directly from a source (e.g., an automobile tailpipe), but it is formed in the atmosphere by chemical and photochemical reactions. Reactive organic gases (ROG), including volatile organic compounds (VOC), are regulated as precursors to ozone formation.

The California Air Resources Board (CARB) and the U.S. Environmental Protection Agency (U.S. EPA) have independent authority to develop and establish health-protective ambient air quality standards. The California air quality standards are set at levels to adequately protect the health of the public, including infants and children, with an adequate margin of safety (California Health and Safety Code Section 39606), and in general, the CAAQS are more stringent than the corresponding health-protective NAAQS. Monitored levels of the pollutants are compared to the current National and California Ambient Air Quality Standards (NAAQS and CAAQS) to determine degree of existing air quality degradation. The standards currently in effect in California are shown in Table AQ-1.

Table AQ-1. National and California Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards	National Standards
Ozone	1 hour	0.09 ppm	—
	8 hour	0.070 ppm	0.070 ppm
Respirable Particulate Matter (PM ₁₀)	24 hour	50 µg/m ³	150 µg/m ³
	Annual Mean	20 µg/m ³	—
Fine Particulate Matter (PM _{2.5})	24 hour	—	35 µg/m ³
	Annual Mean	12 µg/m ³	9.0 µg/m ³
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm
	8 hour	9.0 ppm	9 ppm
Nitrogen Dioxide (NO ₂)	1 hour	0.18 ppm	0.100 ppm
	Annual Mean	0.030 ppm	0.053 ppm
Sulfur Dioxide (SO ₂)	1 hour	0.25 ppm	0.075 ppm
	24 hour	0.04 ppm	0.14 ppm
	Annual Mean	—	0.030 ppm

Notes: ppm=parts per million; µg/m³= micrograms per cubic meter; “—” =no standard

Source: CARB (https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf), July 2024.

Ambient Air Quality Attainment Status and Air Quality Plans.

The U.S. EPA, ARB, and the local air district classify an area as attainment, unclassified, or nonattainment regarding certain pollutants, and these designations dictate the air quality management planning activities. The classification depends on whether the monitored ambient air quality data show compliance, insufficient data available, or non-compliance with the ambient air quality standards, respectively. Table AQ-2 summarizes attainment status for criteria pollutants in comparison with both the state and federal standards, for the Antelope Valley Air Quality Management District.

Table AQ-2. Attainment Status for AVAQMD

Pollutant	Federal Designation	California Designation
Ozone	Nonattainment/ Severe	Nonattainment
PM ₁₀	Attainment	Nonattainment
PM _{2.5}	Attainment	Attainment
NO ₂	Attainment	Attainment
CO	Attainment	Attainment
SO ₂	Attainment	Attainment

Source: Antelope Valley Air Quality Management District 2018.

Toxic Air Contaminants. Toxic air contaminants (TACs) are air pollutants that may lead to serious illness or increased mortality, or which may pose a present or potential hazard to human health (California Health and Safety Code Section 39655), even when present in relatively low concentrations.

Potential human health effects of TACs include birth defects, neurological damage, cancer, and death. There are hundreds of different types of TACs with varying degrees of toxicity. Individual TACs vary greatly in the health risk they present; at a given level of exposure, one TAC may pose a hazard that is many times greater than another's. TACs do not have ambient air quality standards but are regulated by the local air districts using a risk-based approach.

The PVSP would not be considered a stationary source subject to risk assessment programs. Diesel particulate matter (DPM) is classified as a TAC, and statewide programs focus on managing this pollutant through motor vehicle fuels, engine, and tailpipe standards because many toxic compounds adhere to diesel exhaust particles. The local air districts support these programs by issuing permits and requiring controls for larger stationary sources of DPM, including diesel powered engines rated over 50 horsepower.

Valley Fever. *Coccidioidomycosis*, often referred to as Valley Fever, is one of the most studied and oldest known fungal infections. Valley Fever most commonly affects people who live in hot dry areas with alkaline soil and varies with the season. This disease, which affects both humans and animals, is caused

by inhalation of arthroconidia (spores) of the fungus *Coccidioides immitis* (CI). CI spores are found in the top few inches of soil and the existence of the fungus in most soil areas is temporary. The cocci fungus lives as a saprophyte (an organism, especially a fungus or bacterium, which grows on and derives its nourishment from dead or decaying organic matter) in dry, alkaline soil. When weather and moisture conditions are favorable, the fungus “blooms” and forms many tiny spores that lie dormant in the soil until they are stirred up by wind, vehicles, excavation, or other ground-disturbing activities and become airborne. Agricultural workers, construction workers, and other people who are outdoors and are exposed to wind, dust, and disturbed topsoil are at an elevated risk of contracting Valley Fever (CDPH, 2019a).

Valley fever is potentially present within most of the southwestern United States (CDC, 2019). Annual case reports for 2000 through 2018 from the California Department of Public Health indicate that Los Angeles County has reported incident rates for Valley Fever that range from a rate of 0.8 to 9.8 cases per year per 100,000 population (CDPH, 2019b; CDPH, 2015). These incidence rates for Los Angeles County, while rising since 2000, have remained below the State average incidence rates and have been well below the worst-case annual rates for other counties within the State during this period, occurring within the San Joaquin Valley, where in certain years for certain counties (Kings and Kern) there have been over 200 cases per 100,000 population. The incidence rates within the Antelope Valley area of Los Angeles County are much higher than the rest of the County. Incidence rates reported in the Antelope Valley from 2008 have ranged from 12.2 to 54.5 cases per 100,000 population and have been greater than the state average since 2008 (LACPH, 2020; CDPH, 2019b; CDPH, 2015). Therefore, Valley Fever transmittal is a concern for this project given the area incidence rates and the potential for the Project construction activities to encounter and disperse CI spores.

Sensitive Receptors. The impact of air emissions on sensitive members of the population is a special concern. Sensitive receptor groups include children and infants, pregnant women, the elderly, and the acutely and chronically ill. According to AVAQMD guidance, sensitive receptor locations include residences, schools, daycare centers, playgrounds and medical facilities (AVAQMD 2016).

3. AIR QUALITY REGULATORY BACKGROUND

3.1. Federal

Federal Clean Air Act (CAA). The Federal Clean Air Act was enacted in 1970, and the act established the NAAQS for criteria air pollutants. With AVAQMD and ARB, the U.S. EPA shares the responsibility to establish regulations, enforce air pollution control requirements, and develop the necessary air quality management to achieve the NAAQS. The U.S. EPA implements most aspects of the CAA, and reviews local and state air quality management plans and regulations to ensure attainment with the NAAQS.

3.2. State of California

California Clean Air Act. The California Clean Air Act is implemented by the ARB. This act established broad authority for California to regulate emissions from mobile sources and requires regions to develop and enforce strategies to attain CAAQS. Each regional air district is responsible for demonstrating how these standards are met.

U.S. EPA/ARB Off-Road Mobile Sources Emission Reduction Program. The California Clean Air Act mandates that CARB achieve the maximum degree of emission reductions from all off-road mobile sources in order to attain the state ambient air quality standards. Off-road mobile sources include construction equipment. The earliest (Tier 1) standards for large compression-ignition engines used in off-road mobile sources became effective in California in 1996. Since then, the Tier 3 standards for large compression-ignition engines used in off-road mobile sources went into effect in California for most engine classes in

2006, and Tier 4 or Tier 4 Interim (4i) standards apply to all off-road diesel engines model year 2012 or newer. These standards and standards applicable to fleets that are already in-use provide comprehensive regulation and control to reduce NOx and toxic particulate matter emissions from diesel use throughout the State.

CARB In-Use Off-Road Diesel Fueled Fleets Regulation. The regulations for in-use off-road diesel equipment are designed to reduce NOx and toxic diesel particulate matter (DPM). Depending on the size of the fleet of equipment, the owner would need to ensure that the average emissions performance of the fleet meets certain state-wide standards. In lieu of improving the emissions performance of the fleet, electric systems can be installed to replace diesel equipment in the fleet average calculations. Presently, all equipment owners are subject to a five-minute idling restriction in the rule (13 California Code of Regulations (CCR), Chapter 10, Section 2449).

CARB Portable Equipment Registration Program (PERP). This program allows owners or operators of portable engines and associated equipment commonly used for construction or farming to register their units under a statewide portable program. This program allows them to operate their equipment throughout California without having to obtain individual permits from local air districts.

CARB Airborne Toxic Control Measures (ATCM). Diesel engines on portable equipment and vehicles are subject to various ATCM that dictate how diesel sources must be controlled statewide to protect public health. For example, the ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling generally limits idling of commercial motor vehicles (including buses and trucks) within 100 feet of a school or residential area for more than five consecutive minutes or periods aggregating more than five minutes in any one hour (13 CCR, Chapter 10, Section 2485). Diesel engines used in portable equipment fleets are subject to stringent DPM emissions standards, generally requiring use of only newer engines or verified add-on particulate filters (17 California Code of Regulations, Section 93116).

3.3. Local

Antelope Valley Air Quality Management District (AVAQMD)

The AVAQMD is primarily responsible for planning, implementing, and enforcing federal and State ambient standards within this portion of the MDAB. As part of its planning responsibilities AVAQMD prepares Air Quality Management Plans and Attainment Plans as necessary based on the attainment status of the air basins within its jurisdiction. The AVAQMD is also responsible for permitting and controlling stationary source criteria and air toxic pollutants as delegated by the U.S. EPA.

Air Quality Management Plans

The AVAQMD adopts air quality management plans that are designed to bring the Antelope Valley area of the MDAB into attainment of the NAAQS and other plans that are designed to provide progress towards attaining the CAAQS and meet other state air quality regulations. The latest air quality attainment plan is the 2023 plan for the attainment of the Federal 70 ppb 8-hour ozone NAAQS, which demonstrates that the AVAQMD will meet attainment of the 70 ppb 8-hour ozone NAAQS by August 2033. The AVAQMD formalizes rule and regulations to address the jurisdictional emissions reduction measures proposed in these plans.

Rules and Regulations

Through the attainment planning process, the AVAQMD develops the AVAQMD Rules and Regulations to regulate sources of air pollution within its jurisdiction (AVAQMD, 2020). The Project applicable AVAQMD rules are listed below.

AVAQMD Regulation II – Permits

Stationary sources that are constructed as part of the project, which could include boilers and large water heaters, emergency power generators, certain food processing/cooking equipment, and other commercial equipment types that may be installed as part of the project could require permits prior to installation and operation. Additionally, any non-self-propelled portable equipment used during construction that have engines that are over 50 horsepower would be required to obtain AVAQMD permits; or be permitted under the CARB PERP program.

- Rule 201 - Permit to Construct. Requires that new stationary sources of pollutants obtain approval and construct equipment that will comply with permit conditions prior to construction.
- Rule 203 – Permit to Operate. Requires that new stationary sources of pollutants obtain approval prior to their use and comply with permit conditions during their use.
- Rule 219 – Equipment Not Requiring a Permit. This rule specifies types of equipment that are exempt from permit. Examples include mobile equipment small combustion and heat transfer equipment (small engines and boilers/heaters), certain agricultural operations, specified food processing and preparation equipment.

AVAQMD Rule 401 – Visible Emissions

This rule prohibits discharge of air contaminants or other material, which are as dark or darker in shade as that designated No. 1 on the Ringelmann Chart or equivalent opacity to obscure an observer's view for more than three minutes in an hour. Ringelmann No. 2 or equivalent opacity is the standard for roofing asphalt and kerosene fueled pile driving and there are exceptions for a few specific source types such as agricultural operations and abrasive blasting.

AVAQMD Rule 402 – Nuisance

This rule prohibits discharge of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any such persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property.

AVAQMD Rule 403 – Fugitive Dust

The purpose of this rule is to control the amount of PM entrained in the atmosphere from man-made sources of fugitive dust. Under Rule 403, no person shall conduct active operations without meeting performance standards and without utilizing the applicable best available control measures to minimize fugitive dust emissions from specified activity types. Construction and operation fugitive dust emission sources are subject to this rule, which covers all substantial fugitive dust emissions sources, such as excavation and other earthmoving operations, storage piles, unpaved roads, and track-out onto paved roads. Additionally, this rule requires the submittal, pre-work approval, and implementation of a dust control plan (DCP) for projects with more than 10 acres of residential construction, five acres of non-residential construction, and operations requiring the movement, depositing, or relocation of 2,500 cubic yards per day of bulk materials on at least three days.

AVAQMD Rule 461 – Gasoline Transfer and Dispensing

The purpose of this rule is to reduce volatile organic compound (VOC) emissions. This rule would apply to any gasoline dispensing facilities constructed as part of the project.

AVAQMD Rule 481 – Spray Coating Operations

This rule which includes requirements on the type of allowed spray coating technologies, is applicable to any new commercial spray coating operations that may be constructed as part of the project.

AVAQMD Regulation XI – Source Specific Standards

This regulation is composed of over forty individual rules, most of which are not applicable to the Project. Specific rules that may be applicable include:

- Rule 1102 – Petroleum Solvent Dry Cleaners. This rule, which does not apply to dry cleaners that only use non-petroleum solvents, provides operating requirements to reduce the VOC emissions from the use of petroleum solvents.
- Rule 1110.2 – Emissions from Stationary, Non-Road and Portable Internal Combustion Engines. This rule sets emissions limits for NO_x, VOC and CO from internal combustion engines over 50 horsepower.
- Rule 1113 – Architectural Coatings. This rule limits the VOC contents of paints applied to various surfaces that would be applicable to any construction and operation architectural painting operations. The new structures constructed as part of the project would require painting, as would the new on-site roads and parking areas; and they all would require repainting periodically.
- Rule 1121 - Control Of Nitrogen Oxides From Residential Type, Natural Gas-Fired Water Heaters. This rule limits the NO_x emissions from newly installed residential natural gas-fired water heaters with less than 75,000 Btu/hour heat input.
- Rule 1146 - Emissions Of Oxides Of Nitrogen From Industrial, Institutional, And Commercial Boilers, Steam Generators, And Process Heaters. This rule limits the NO_x and CO emissions from boilers, steam generators and process heaters with a heat input of more than 5 million Btu/hour.
- Rule 1146.1 - Emissions Of Oxides Of Nitrogen From Small Industrial, Institutional, And Commercial Boilers, Steam Generators, And Process Heaters. This rule limits the NO_x emissions from boilers, steam generators and process heaters with a heat input between 2 and 5 million Btu/hour.
- Rule 1166 – Volatile Organic Compound Emissions from Decommissioning of Soils. This rule sets requirements to control emissions from excavating, grading, handling and treating VOC-contaminated soils that may be encountered during Project construction. The PVSP area does not have known contamination issues. If VOC contaminated soils are discovered during Project construction, this rule would apply, and the Project would have to comply with applicable parts of this rule.

AVAQMD Regulation XIII – New Source Review

This regulation provides the preconstruction review requirements for the permitting of new and modified emissions sources that require a permit under Regulation II. Specific requirements include the requirement for equipment that emit more than 25 pounds per day of a non-attainment pollutant be equipped with Best Available Control Technology; and that facilities that are permitted to emit above specified annual emissions thresholds obtain emissions offsets prior to construction. Emissions sources that are could be built under this Project could require BACT, but none would be expected to have permitted emissions levels high enough to require offsets.

AVAQMD Regulation XIV – Toxics and Other Non-Criteria Pollutants

This regulation provides preconstruction review requirements for the permitting of new and modified air toxics emissions sources and includes several emissions source specific regulations. Sources determined to have moderate or significant health risks, as defined by the rule, are required to install Best Available Control Technology for Toxics (T-BACT).

City of Lancaster

The City of Lancaster's General Plan (City of Lancaster, 2009) contains several policies to protect local air quality, including the following:

- Policy 3.3.1 – Minimize the amount of vehicular miles traveled.
- Policy 3.3.2 – Facilitate the development and use of public transportation and travel modes such as bicycle riding and walking.
- Policy 3.3.3 – Minimize air pollutant emissions generated by new and existing development.
- Policy 3.3.4 – Protect sensitive uses such as homes, schools and medical facilities, from the impacts of air pollution.
- Policy 3.3.5 – Cooperate with the AVAQMD and other agencies to protect air quality in the Antelope Valley.

The General Plan's Environmental Impact Report (City of Lancaster 2009b) includes mitigation measures for projects associated with the general plan. The mitigation measures are as follows:

- AQ-1: For projects that may exceed daily construction emissions established by the AVAQMD, Best Available Control Measures shall be incorporated to reduce construction emissions to below daily emission standards established by the AVAQMD. Project proponents shall prepare and implement a Construction Management Plan which shall include, Best Available Control Measures among others. Appropriate control measures shall be determined on a project-by-project basis and would be specific to the pollutant for which the daily threshold is exceeded.
- AQ-3: The City of Lancaster shall require that all new dwelling units install Energy Star rated appliances and the most energy-efficient water heaters and air conditioning systems that are feasible. The City of Lancaster shall also require all new buildings and major renovations to use energy efficient lighting (indoor and outdoor) that reduce electricity use substantially more than current State Building Code requirements.

Additionally, the General Plan includes objectives and associated policies to increase alternative modes of transportation and reduce single vehicle ridership. The objective and its policies are:

- Objective 14.4 Reduce reliance of the use of automobiles and increase average vehicle ridership (AVR) occupancy by promoting alternatives to the single-occupancy auto use of the private automobile, including ridesharing, non-motorized transportation (bicycle, pedestrian), and the use of public transit.
- Policy 14.4.1: Under the guidance of the Transportation Master Plan, support and encourage the various public transit companies, ridesharing programs and other incentive programs, that allow residents to utilize forms modes of transportation other than the private automobile and accommodate those households within the Urbanizing Area of the City that rely on public transit.
- Policy 14.4.2: Promote the use of alternative modes of transportation through the development of convenient and attractive facilities which that support and accommodate the services.
- Policy 14.4.3: Encourage bicycling, wherever possible, as an alternative to automobile travel for the purpose of reducing vehicle miles traveled (VMT), fuel consumption, traffic congestion, and air pollution by providing appropriate facilities for the bicycle riders (see also Policy 10.2.4 and subordinate appurtenant Specific Actions of the Plan for Active Living).
- Policy 14.4.5: Design transportation facilities to encourage walking, provide connectivity, ADA accessibility, and safety by reducing potential auto/pedestrian conflicts.

4. GHG REGULATORY BACKGROUND

4.1. Federal

Clean Air Act

Under the provisions of the CAA, U.S. EPA has promulgated performance standards and emissions guidelines to focus on reducing GHG emissions from stationary sources, and to cover large stationary sources of GHG in the Prevention of Significant Deterioration Permit Program, and the federal operating permits program. Additionally, the U.S. EPA implements the Mandatory GHG Reporting rule applicable to stationary sources. However, no major stationary sources are the PVSP, so federal regulations directed at mobile sources and the residential and commercial sector are of primary interest for this Project.

Heavy Duty Vehicle National Program

In September 2011, the U.S. EPA and the National Highway Traffic Safety Administration (NHTSA) developed the Heavy Duty Vehicle National Program, which was designed to reduce fuel consumption (and GHG emissions by association) from medium- and heavy-duty vehicles. The program was directed at model year 2014-2018 vehicles and is projected to reduce GHG emissions by approximately 270 million metric tons (MT).

In August 2016, the U.S. EPA and the NHTSA adopted Phase 2 of the Heavy Duty Vehicle National Program. Phase 2 aims to set performance-based standards that would be met through wider deployment of existing and advanced technologies. For diesel engines, the proposed standards would begin for model year 2018 engines and phase in through 2027. Phase 2 is expected to reduce GHG emissions by an additional 10 percent.

Renewable Fuel Standard

The U.S. EPA's Renewable Fuel Standard (RFS) established the first renewable fuel volume mandate in the U.S. in 2005. The original RFS program required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. The program was expanded in 2007 and currently requires that 36 billion gallons of renewable fuel be blended into gasoline by 2022 (DOE 2007).

Light-Duty Vehicle Greenhouse Gas Emissions and Corporate Average Fuel Economy Standards

In May 2010, the U.S. EPA and the NHTSA developed a program designed to reduce fuel consumption (and GHG emissions by association) from light-duty vehicles. The program was directed at model year 2012-2016 vehicles and is projected to reduce GHG emissions by approximately 960 million MT. In October 2012, the U.S. EPA and the NHTSA expanded the program to vehicle model years 2017 through 2025 (U.S. EPA 2012).

4.2. State

California Governor's Office of Planning and Research, Guidelines on GHG (SB 97)

In late December 2009, the California Natural Resources Agency adopted certain amendments to the State CEQA Guidelines for reviewing the environmental impacts of greenhouse gas emissions to implement the California Legislature's directive in PRC Section 21083.05 (enacted as part of SB 97 (Chapter 185, Statutes, 2007)). These amendments became effective in March 2010. As part of the administrative rulemaking process, the Natural Resources Agency developed a Final Statement of Reasons explaining the legal and factual bases, intent, and purpose of the CEQA Guidelines amendments. The Final Statement of Reasons guides the scope of GHG analyses for CEQA documents and addresses the subject of life-cycle analysis.

Life-cycle analysis (i.e., assessing economy-wide GHG emissions from the processes in manufacturing and transporting all raw materials used in developing a given project and infrastructure) depends on emission factors or econometric factors that are not well established for all processes. The basis of State CEQA Guidelines set forth by the California Natural Resources Agency indicate that a full life-cycle analysis would be beyond the scope of a given CEQA document because of a lack of consensus guidance on life-cycle analysis methodologies.

California Governor's Executive Orders on GHG Emissions

The California Governor's Executive Order S-3-05 (June 2005) declared California's particular vulnerability to climate change and sets a target of an 80 percent reduction of California greenhouse gas emissions from 1990 levels by 2050 and a target to achieve 1990 levels by 2020. In response to Executive Order S 3 05 and increasing societal concern about the effects of climate change, the California Legislature enacted California Global Warming Solutions Act of 2006, Assembly Bill 32 (AB 32).

Executive Order B-30-15 (April 2015), codified under SB 32, established a California greenhouse gas reduction target of 40 percent below 1990 levels by 2030. One purpose of this interim target is to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. This executive order also specifically addresses the need for climate adaptation and directs state agencies to update the California Climate Adaptation Strategy to identify how climate change will affect California infrastructure and industry and what actions the state can take to reduce the risks posed by climate change.

In September 2018, Executive Order B-55-18 established a new statewide goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. The CARB was directed to develop the framework for implementing the goal of carbon neutrality.

California Renewables Portfolio Standard (RPS) Program

Electric utilities in California must procure a minimum quantity of the sales from eligible renewable energy resources as specified by RPS requirements. The Clean Energy and Pollution Reduction Act of 2015 (SB 350), signed into law on October 7, 2015, established California's state policy objectives on long-term energy planning and procurement. The 100 Percent Clean Energy Act of 2018 [Senate Bill 100 (SB 100)] revised the RPS targets to establish the policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all state agencies by December 31, 2045. With SB 350 and SB 100, California's renewable energy objectives include:

- To set the Renewable Portfolio Standard (RPS) for the procurement of California's electricity from renewable sources at 33 percent by 2020, 50 percent by 2026, and 60 percent by 2030;
- To plan for 100 percent of total retail sales of electricity in California to come from eligible renewable energy resources and zero-carbon resources by December 31, 2045; and
- To double the energy efficiency savings in electricity and natural gas end uses by retail customers by 2030.

The indirect GHG emissions from residential, commercial, and industrial electricity use will be reduced over time as utilities obtain increasing amounts of renewable energy.

AB 32 Climate Change Scoping Plan and Scoping Plan Updates

With AB 32, the California Global Warming Solutions Act of 2006, the 2020 GHG emissions reduction goal became law and requires California to maintain and continue reductions beyond 2020. AB 32 also directed the CARB to develop regulations and market mechanisms to reduce GHG and prepare a scoping plan to

identify how best to reach the Executive Order S-3-05 2020 emissions limit. The first statewide AB 32 Scoping Plan was adopted by CARB in December 2008. AB 32 requires CARB to update the Scoping Plan at least every five years., and the CARB approved the First Update to the Scoping Plan in May 2014. The 2017 Scoping Plan Update, approved on December 14, 2017, provides the strategy for achieving California's 2030 target, emissions reduced to 40% below the 1990 level, that was approved by the passage SB 32 (CARB, 2017).

The 2017 Scoping Plan Update, approved on December 14, 2017, provides the strategy for achieving California's 2030 GHG emissions reduction target that was approved in SB 32. The major statewide emission reduction programs approved through these scoping plans includes the following:

- Double building efficiency
- 50% renewable power
- More clean, renewable fuels (Low Carbon Fuel Standard)
- Cleaner and zero or near zero emissions cars, trucks, and buses
- Walkable/bikeable communities with transit
- Cleaner Freight and goods movement
- Slash potent "super-pollutants" from dairies, landfills, and refrigerants
- Cap emissions from transportation, industry, natural gas, and electricity
- Invest in communities to reduce emissions

These statewide programs have been created to reduce GHG emissions from all of the major GHG emissions sectors (i.e. transportation, residential, commercial, industrial, waste, etc.).

California Appliance Efficiency Standards

Title 20 of the California Code of Regulations (CCR) includes minimum efficiency standards for new appliances, consumer electronics and plumbing equipment. Examples of covered appliances include kitchen appliances, water heaters, and space heaters that directly and indirectly reduce GHG emissions. Examples of covered consumer electronics includes televisions, lightbulbs and lamps, and computers. Efficiency standards for plumbing equipment are designed to provide water use efficiency.

Green Building and Building Energy Efficiency Standards

Title 24 of the CCR includes the CALGreen building standards and the Building Energy Efficiency Standards for Residential and Nonresidential Buildings. These building standards include mandatory measures for residential and non-residential construction that are designed to reduce GHG emissions. These requirements include mandatory photovoltaic systems for new single family and low-rise residential buildings and solar ready construction for low-rise non-residential buildings.

4.3. Local

City of Lancaster Climate Action Plan (CAP)

The City of Lancaster adopted a Climate Action Plan (CAP) in March 2017, which identifies projects that would help further reduce GHG emissions (City of Lancaster, 2017). Sixty-one projects were identified across eight sectors: traffic, energy, municipal operations, water, waste, built environment, community, and land use. The CAP also evaluates different future scenarios with the proposed measures and found the use of the measures in all future scenarios meet the 2020 target and make substantial progress towards achieving the post-2020 reduction targets.

5. METHODOLOGY AND THRESHOLDS

5.1. Methodology

All construction- and operation-related emissions were quantified based on the best available forecast of activities. This analysis uses the California Emissions Estimator Model (CalEEMod; version 2022.1.1.28) software developed by the California Air Pollution Control Officers Association (CAPCOA). This is the most recent version of the CalEEMod software, and it relies upon mobile source emission factors from the Air Resources Board (CARB) OFFROAD inventory and EMFAC2021 models. Where project-specific design features are not yet defined, default and typical settings from CalEEMod are used. Default emission factors used in this analysis appear in the CalEEMod User's Guide Appendix D (April 2022). CalEEMod utilizes construction scheduling to calculate emissions based on phase. For the PVSP, since construction would occur over a 20-year period, with an anticipated build-out year of 2050, construction emissions were calculated beginning in 2030, while operation emissions were calculated using emission factors for 2050.

Fugitive dust emissions are assumed to be controlled using the following methods:

- Watering of on-site unpaved roads three times daily
- Watering of disturbed areas to reduce wind erosion
- Reducing vehicle speeds on the unpaved on-site roads to a maximum of 15 miles per hour.

These methods are assumed to be necessary to comply with AVAQMD rule 403.

5.2. CEQA Thresholds of Significance

The AVAQMD CEQA and Federal Conformity Guidelines has four evaluation criteria to determine if a project is significant, and they are as follows:

"The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient:

1. Generates total emissions (direct and indirect) in excess of the thresholds given in Table AQ-3;
2. Generates a violation of any ambient air quality standard when added to the local background;
3. Does not conform with the applicable attainment or maintenance plan(s)
4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1."

The emissions from the activities of construction and operation of the project are compared to these AVAQMD significance thresholds to determine whether the project would result in adverse air quality impacts. Table AQ-3 shows AVAQMD's annual and daily thresholds for criteria pollutants.

Table AQ-3. AVAQMD Significance Thresholds

Pollutant	Annual Threshold (tons/year)	Daily Threshold (lbs/day)
Carbon Monoxide (CO)	100	548
Nitrogen Oxides (NO _x)	25	137
Volatile Organic Compounds (VOC)	25	137
Sulfur Oxides (SO _x)	25	137
Particulate Matter (PM ₁₀)	15	82
Particulate Matter (PM _{2.5})	12	65
Hydrogen Sulfide	10	54
Lead	0.6	3

Source: Antelope Valley Air Quality Management District 2016.

The threshold of significance for GHG emissions in the AVAQMD is 100,000 tons of CO₂e (90,719 MT CO₂e) per year (AVAQMD 2016). Project-related GHG emissions would be considered significant if total emissions (direct and indirect effects) would exceed this threshold.

Hazardous Air Pollutants (HAPs)

If the lead agency determines that the project will emit TACs, the evaluation must assess the potential of those toxic emissions to adversely impact nearby populations. Impacts from TACs may be estimated by conducting a health risk assessment (HRA). The AVAQMD CEQA and Federal Conformity Guidelines lists the following project types to evaluate exposure of sensitive receptors to substantial toxic air pollutant concentrations:

- Any industrial project within 1000 feet;
- A distribution center (40 or more trucks per day) within 1000 feet;
- A major transportation project (50,000 or more vehicles per day) within 1000 feet;
- A dry cleaner using perchloroethylene within 500 feet;
- A gasoline dispensing facility within 300 feet.

The PVSP is a planned community, which does not fall under any of the above project types. The commercial activities that are associated with the project do not include industrial activities that would contribute to HAP/TAC emissions. As such, the PVSP is not considered to have a significant health impact to sensitive receptors. Therefore, HAP emissions were not calculated, and the project was not evaluated for potential health risks to sensitive receptors.

6. CONSTRUCTION EQUIPMENT FLEET AND SCHEDULE

Construction emissions associated with the Project include VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5}. These emissions originate or are created primarily by mobile sources during the following phases of construction:

- Site Preparation (e.g., dozers, tractors, loaders, backhoes)
- Grading (e.g., excavators, graders, scrapers)
- Building Construction (e.g., cranes, forklifts, generators sets, welders)
- Architectural Coating (e.g., painting)
- Paving (e.g., pavers, rollers)
- Construction worker commuting (e.g., vehicle miles traveled)

Construction activities are expected to begin in 2030, and it is anticipated that the complete build out would occur over a 20-year period. Construction is expected to occur in five phases, excluding demolition,

as the existing site is a clear vacant land. Individual projects will begin and complete construction throughout the 20-year period, with no current schedule. For that reason, construction emissions were modelled to occur at an even rate over the entire 20 years Table AQ-4 summarize the construction schedule used to estimate maximum daily emissions from typical construction equipment use throughout each phase.

Table AQ-4. Estimated Parkway Village Construction Schedule

Phase	Name	Start Date	End Date	Days/Week	Total Days
1	Site Preparation	1/1/2030	7/29/2030	5	150
2	Grading	7/30/2030	6/9/2031	5	225
3	Building Construction	6/10/2031	12/14/2037	5	1700
4	Paving	12/15/2037	6/20/2044	5	1700
5	Architectural	6/21/2044	12/26/2050	5	1700

Off-road Construction Equipment. The on-site construction equipment fleet would include a wide range of off-road equipment. Equipment used for development of each land use would primarily be diesel-fueled, and emissions from these sources would occur almost exclusively from on-site locations or within the alignment of project linear facilities. Although the actual composition of the fleet would vary depending on the design, and the fleet would vary over time as activities progress, the fleet could include loaders, graders, scrapers, dozers, backhoes, lifts, cranes, welders, and portable generators, with comparable equipment substituted as needed. The off-road equipment is not subject to local air district permitting requirements for stationary sources, as these are classified and registered as mobile or portable sources.

Table AQ-5. Parkway Village Construction Equipment

Phase	Name	Total Days	Equipment Type	Number of Equipment	Hours/Day
1	Site Preparation	150	Rubber Tired Dozers	3	8
			Tractors/Loaders/Backhoes	4	8
			Excavators	2	8
			Graders	1	8
2	Grading	225	Rubber Tired Dozers	1	8
			Scrapers	2	8
			Tractors/Loaders/Backhoes	2	8
			Cranes	1	7
3	Building Construction	1700	Forklifts	3	8
			Generator Sets	1	8
			Tractors/Loaders/Backhoes	3	7
			Welders	1	8
4	Paving	1700	Pavers	2	8
			Paving Equipment	2	8
			Rollers	2	8
5	Architectural	1700	Air Compressors	1	6

Source: Attachment 1, AQ/GHG Emissions Inventory.¹

¹ Available in Appendix A at <https://www.cityoflancasterca.org/our-city/departments-services/development-services/planning/environmental-review/environmental-impact-reports-eirs>

On-road Vehicles. On-road sources include all motor vehicles. Heavy-duty trucks would be used by contractors and vendors: for delivery of project components; for movement of raw materials such as concrete, water and road base; and for trash haul-off and other disposal trips. Light-duty and medium-duty vehicles would carry crews and workers to and from the site. The emissions associated with these activities were determined using CalEEMod defaults.

7. OPERATION AND MAINTENANCE ACTIVITIES

Operational Emissions associated with the PVSP will originate from area sources, energy use, and mobile sources from increased traffic.

Area Source Emissions

Architectural Coatings

Routine maintenance is performed to prevent normal wear and tear on structures from causing deterioration. This maintenance includes the application or use of architectural coatings, like paints, primers, solvents, and other surface coatings. Many architectural coatings emit VOCs when they are applied. CalEEMod assumes a default 10% of the square footage of these structures are coated per year.

Consumer Products

Consumer products include a wide variety of items such as household cleaning products, aerosols, and personal cosmetics. Many of these products emit VOCs during use. By the time this Project is fully operational, the availability of high VOC consumer products in California stores will be very limited due to CARB's Regulation for Reducing Emissions from Consumer Products, approved in 2015.

Landscape Maintenance Equipment

The emissions are associated with both the commercial and residential landscape and were estimated using default emission factors in CalEEMod for fuel combustion equipment including lawn mowers and trimmers.

Hearths

Hearths include wood stoves and fireplaces. The AVAQMD currently has two rules on their rule making calendar, Wood Burning Fireplaces and Woodburning Fireplace/Heater, which will most likely lead to restrictions on the installation of fireplaces and wood burning stoves in new developments. In anticipation of these rules, the unmitigated emissions were adjusted to reflect that wood burning stoves and wood fireplaces would not be included in the PVSP. Natural gas fireplaces would still be commonplace in single family residences, and potentially in condos and townhomes; however, the apartments would not have any fireplaces.

Energy Source Emissions

Combustions emissions from energy sources are based on electricity and natural gas consumption associated with the Project. Energy Source Emissions were calculated using default CalEEMod energy intensity rates.

Mobile Source Emissions

The operational emissions from mobile sources are based on daily vehicle trips of residences to work, shopping or other locations, and vehicle trips associated with the commercial portions of the project from

customers, workers and non-workers. A Traffic Study was completed for the Project and the trip rates for several of the land-use types were utilized from the traffic study, and for others default CalEEMod rates were used. The CalEEMod default for average distance from home to work for residences is 10.8 miles. However, this number is not representative of the overall average for the City of Lancaster. Instead, to be more representative of reality, U.S. Census data was used, showing that the mean travel time to work for Lancaster from 2018-2022 was 30.9 minutes. Assuming an average travel rate of 55 miles per hour, the updated home to work travel time was assumed to be 28.3 miles. Attachment 1¹ describes traffic trip rates and lengths utilized in CalEEMod in more detail.

8. AIR QUALITY IMPACTS

Impact AQ-1: Would the project conflict with or obstruct implementation of the applicable air quality plan?

DURING CONSTRUCTION AND OPERATION, *LESS THAN SIGNIFICANT*. For the project area, the AVAQMD and CARB ensure implementation of California's air quality management plans, known collectively as the State Implementation Plan. State-level air quality planning strategies to attain CAAQS are implemented through rules, regulations, and programs adopted by the AVAQMD and CARB to control ozone precursors, PM10, and PM2.5. All construction and project development-related activities, including operation and maintenance, would comply with the applicable rules, regulations, and programs.

All construction and operation activities would comply with AVAQMD's Rules 201, 203, and 209. Additionally, activities would comply with AVAQMD Rules 401, 402, 403, 461, and 481 which prevent nuisance and regulate fugitive dust emissions. The PVSP would also conform to the federal and state Clean Air Act requirements by complying with the rules and regulations that are contained in the air quality plan.

A project could be deemed inconsistent with an applicable air quality management or attainment plan if it causes population, employment, and/or vehicle-miles traveled growth in excess of the growth forecasts included in the attainment plan. The AVAQMD CEQA and Federal Conformity Guidelines notes the following with respect to conformity impacts:

According to AVAQMD CEQA and Federal Conformity Guidelines a project is consistent with applicable air quality plans if it complies with all applicable AVAQMD rules and regulations, complies with all proposed control measures that are not adopted from applicable plans, and is consistent with the growth forecasts in the applicable plan(s). Conformity with growth forecasts can be established by demonstrating that the project is consistent with the land use plan that was used to generate the growth forecast.

The motor vehicle emissions budget in the AVAQMD 2023 Ozone Attainment Plan uses activity data (i.e., VMT and speed distributions) from the Southern California Association of Governments (SCAG) 2020 Regional Transportation Plan (RTP) / Sustainable Communities Strategy (SCS). Potential growth from implementation of the PVSP would not exceed SCAG's nor the 2023 Attainment Plan's buildout projections for the City. As discussed in Section 3.12, *Population and Housing*, the City of Lancaster's projected growth is within SCAG's 2035 and 2050 population growth projections. As such, the proposed project would not exceed the housing and population growth forecasts for the City. The Plan would be required to comply with all AVAQMD rules and regulations to improve air quality and therefore, would not conflict with or obstruct implementation of the applicable air quality plan. This impact would be less than significant.

Impact AQ-2: Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

DURING CONSTRUCTION, *LESS THAN SIGNIFICANT*. The PVSP area is in an area designated as non-attainment for the new State-level ozone standard and PM10 standard and is designated as non-attainment for the federal ozone standard. and is in attainment for all other CAAQS. The area is classified as either unclassified or attainment for all other state and federal standards. Emissions during the construction phase would include criteria air pollutants that could exceed quantitative thresholds for ozone precursors or PM10 would represent a cumulatively considerable net increase of nonattainment pollutant. Emissions exceeding the quantitative thresholds could contribute to existing or projected violations of the ambient air quality standards.

Construction would generate emissions at the PVSP area and off-site along the roadways traveled by construction traffic. Construction emissions would be caused by exhaust from vehicles and equipment (this includes ozone precursors [VOC] or [ROG] and NOx, CO, and particulate matter [PM10 and PM2.5]) and fugitive dust/particulate matter from ground-disturbing activities and travel on unpaved surfaces and on paved roads.

To minimize the amount of fugitive dust from unpaved surfaces and emissions from other ground-disturbing activities during the site preparation period, all construction activity would be required to comply with local air district rules regarding dust control (AVAQMD Rules 401, 402, 403). Diesel and gasoline-powered construction equipment would be classified as portable or as mobile sources (off-road equipment), and these sources are subject to statewide registration and fleet requirements. On-road motor vehicle emissions would occur primarily off-site. The on-road sources include the heavy-duty trucks to deliver equipment, concrete, water, and other materials, and light-duty vehicles carrying crews and medium-duty deliveries.

Emission sources would be dispersed across the site and not always used continuously or at the same time. Substantial or adverse levels of localized ground-level concentrations would be unlikely with construction because pollutants would be emitted from several pieces of equipment dispersed over large areas. Dust control and engine exhaust would be subject to AVAQMD rules and regulations to avoid adverse levels of air pollutant concentrations.

Table AQ-6 summarizes the maximum daily emissions for anticipated construction, without potential mitigation, assuming construction commences in 2030. Table AQ-7 summarizes the maximum annual emissions rates anticipated for construction. Daily and yearly emission maximums are due to the most intensive phase. More detailed emissions estimates including by year and phase are located in Attachment 1.¹

Table AQ-6. Parkway Village Specific Plan: Construction, Daily Emissions

	Maximum Daily Emissions (lbs/day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	23.62	26.44	31.71	0.07	80.41	17.17
AVAQMD Daily Thresholds (Construction)	137	137	548	137	82	65
Exceedance (Y/N)	N	N	N	N	N	N

Source: Attachment 1, AQ/GHG Calculations.¹

As seen in Table AQ-6, maximum daily emissions would not exceed AVAQMD significance thresholds for any criteria pollutants.

Table AQ-7. Parkway Village Specific Plan: Construction, Annual Emissions

	Maximum Annual Emissions (tons/year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Annual Emissions	3.08	3.26	3.95	0.01	9.62	1.84
AVAQMD Yearly Thresholds (Construction)	25	25	100	25	15	12
Exceedance (Y/N)	N	N	N	N	N	N

Source: Attachment 1, AQ/GHG Calculations.¹

Table AQ-7 shows that the maximum daily annual emissions during construction would be below the AVAQMD thresholds. The impact of increased criteria air pollutant emissions during construction would be less than significant.

DURING OPERATION, SIGNIFICANT AND UNAVOIDABLE. Operations-related emissions would be caused by area sources, energy use, and mobile sources from increased traffic. After the 20-year development of the site, there would be area sources and energy use from newly developed residences, offices, schools, parks, medical centers and more. Additionally, emissions would stem from increased traffic associated with new housing, offices, schools and retail.

Development of the PVSP would occur through implementation of individual projects. Each of which would contribute to the overall operational emissions of the PVSP, commencing when each individual project starts operations. For this analysis, the estimated emissions from complete buildout and operation of the entire PVSP area were compared against the AVAQMD thresholds for individual projects. Operational emissions of PVSP development in year 2050 would exceed some of the thresholds. These thresholds are recommended by AVAQMD for use in project level evaluations and are shown here because AVAQMD does not have quantitative recommended thresholds for plan level evaluation. Table AQ-8 summarizes the maximum annual emissions rates anticipated after the proposed plan is fully built out.

Table AQ-8. Parkway Village Specific Plan: Operation, Annual Emissions without Mitigation

Source Type	Maximum Annual Emissions (tons/year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Mobile	17.70	12.51	115.00	0.32	14.70	3.91
Area	21.17	0.95	24.64	0.01	0.08	0.07
Energy	0.61	5.36	3.24	0.03	0.42	0.42
Maximum Total Emissions	39.49	18.82	142.88	0.35	15.20	4.40
AVAQMD Yearly Thresholds (Operation)	25	25	100	25	15	12
Exceedance (Y/N)	Y	N	Y	N	Y	N

Source: Attachment 1, AQ/GHG Calculations.¹

Table AQ-8 shows that the maximum annual emissions during operation would exceed the AVAQMD annual thresholds for VOCs, CO, and PM10. The increase in vehicular traffic attributed to population growth in the project area is mostly responsible for CO and PM10 exceedances, while area sources and transportation contribute to the VOC exceedance.

Mobile source emissions reductions are achieved through PVSP features, including Non-Vehicular Circulation, encouraging pedestrian circulation via sidewalks and bicycling through bike lanes. There will be sidewalks along all public streets, and bike lanes in street with classifications of collector and higher. To improve VMT reductions to decrease annual emissions from mobile sources, and simultaneously better

conform with the applicable plans, this analysis recommends mitigation measure MM AQ-1 for implementation with the PVSP. To reduce emissions associated with area sources, this analysis recommends mitigation measure MM AQ-2.

Table AQ-9 shows maximum annual mitigated operation emissions.

Table AQ-9. Parkway Village Specific Plan: Operation, Annual Emissions with Mitigation

Source Type	Maximum Annual Emissions (tons/year)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Mobile	16.54	11.69	107.45	0.29	13.74	3.65
Area	16.88	0.00	0.00	0.00	0.00	0.00
Energy	0.25	2.31	1.94	0.01	0.18	0.18
Maximum Total Emissions	33.67	14.00	109.39	0.31	13.91	3.82
AVAQMD Yearly Thresholds (Operation)	25	25	100	25	15	12
Exceedance (Y/N)	Y	N	Y	N	N	N

Source: Attachment 1, AQ/GHG Calculations.¹

After implementation of MM AQ-1, quantified emissions would be largely decreased, and less than the threshold for PM10, but still in exceedance of the VOC and CO thresholds. Impacts would be significant and unavoidable.

Recommended Mitigation for Operation-Phase Emissions

MM AQ-1 Operational Area Source Emission Reduction Plan. The PVSP may implement energy-efficient heating and cooling systems to decrease reliance on natural gas. This may include using electric alternatives in residences, including installing electric hearths and stoves instead of natural gas or wood stoves and hearths. Additionally, the project owner may utilize low VOC paints and cleaning supplies where applicable.

Impact AQ-3: Would the project expose sensitive receptors to substantial pollutant concentrations?

DURING CONSTRUCTION, LESS THAN SIGNIFICANT WITH MITIGATION. This criterion assesses whether the PVSP would expose sensitive receptors to substantial pollutant concentrations. Construction activities would result in locally increased concentrations of construction-related emissions, including criteria air pollutants, diesel particulate matter (DPM) and other toxic air contaminants, which would cause increased health risk and hazards near the site.

Criteria Air Pollutants. Construction-related emissions would disperse across the site and off-site and would cause increased pollutant concentrations for onsite and off-site receptors. To ensure that construction-related pollutant concentrations are controlled, this analysis identifies mitigation to reduce construction-related emissions by focusing on implementing off-road equipment engine standards (MM AQ-3) to reduce the potential near-field impacts caused by on-site construction. Emissions from off-site sources, including on-road vehicles and vehicles on the regional roadways, could be excluded from evaluation of near-field impacts. Because on-site construction emissions of criteria air pollutants would be below the AVAQMD daily thresholds, project construction would not be likely to locally exceed the ambient air quality standards. With mitigation to reduce engine exhaust emissions (MM AQ-3), construction emissions would not expose sensitive receptors to substantial pollutant concentrations of criteria air pollutants, and the incremental health effects of criteria pollutants would be less than significant with mitigation.

Toxic Air Contaminants. The primary health risks to nearby sensitive receptors during construction would be driven by DPM emissions from on-site offroad equipment and vehicles during construction. Noncancer effects of DPM are normally less of a concern than cancer risks. Build out of the plan would occur over 20 years, with different sites being constructed at different times. Health effects from carcinogenic TACs are usually described in terms of individual cancer risk over a 30-year exposure duration. Further, construction emissions would occur at variable rates during the 20-year build out term and across a combined area of approximately 450 acres, rather than as a steady rate of emissions. Concentrations of mobile source DPM emissions are greatly reduced by distance, such that a separation of 1,000 feet normally allows sensitive land uses to avoid high levels of DPM concentrations (ARB 2005). With mitigation to reduce engine exhaust emissions (MM AQ-1), the impact of localized ground level concentrations and incremental health effects of toxic air contaminants would be less than significant with mitigation.

Valley Fever. CI spores are found in the top few inches of soil and may be stirred up by wind, vehicles, excavation, or other ground-disturbing activities and become airborne. Construction workers and others who work outdoor are at risk for Valley Fever, especially when disturbing soil, operating heavy machinery, or working under windy conditions. Valley Fever is highly endemic in Antelope Valley, meaning that the annual incidence rate of Valley Fever is greater than 20 cases per 100,000 persons per year (Cal. Labor Code section 6709). By California law (under Assembly Bill 203 of 2019), construction employers who work in counties with high rates of Valley Fever must annually train employees on minimizing the risk of Valley Fever (CDPH, 2022). Steps that can be taken to limit workers' exposure to dust, such as watering down the soil before digging, reduce the risk of Valley Fever. Since the Plan site is endemic to Valley Fever, and workers as well as receptors in the area could be exposed to the spores during construction activities mitigation is required to minimize impacts. With implementation of MM AQ-3, impacts would be less than significant.

Recommended Mitigation for Construction-Phase Emissions

MM AQ-2 Control On-Site Off-Road Equipment Emissions. The project owner, when entering into construction contracts or when procuring off-road equipment or vehicles for on-site construction or operation and maintenance O&M activities, shall ensure that only new model year equipment or vehicles are obtained. The following measures would be included with contract or procurement specifications:

- All construction diesel engines not registered under California Air Resources Board's Statewide Portable Equipment Registration Program, with a rating of 50 horsepower (hp) or higher shall meet the Tier 4 California Emission Standards for Off-Road Compression-Ignition Engines, as specified in California Code of Regulations, Title 13, section 2423(b)(1), unless a good faith effort demonstrates that such engine is not available for a particular item of equipment. In the event that a Tier 4 engine is not available for any off-road equipment larger than 100 hp, a Tier 3 engine shall be used or that equipment shall be equipped with retrofit controls to reduce exhaust emissions of NO_x and DPM to no more than Tier 3 levels unless certified by the engine manufacturers that the use of such devices is not practical for specific engine types.
- All diesel-fueled engines used during construction shall have clearly visible tags showing that the engine meets the standards of this measure.
- All equipment and trucks used during construction shall be properly maintained and the engines tuned to the engine manufacturer's specifications.
- All diesel heavy construction equipment shall not idle for more than five minutes. Vehicles that need to idle as part of their normal operation (such as concrete trucks) are exempted from this requirement.

MM AQ-3

Valley Fever Awareness and Prevention. Prior to ground disturbance activities, the project operator shall provide evidence to the Community Development Director that the project operator and/or construction manager has developed a “Valley Fever Training Handout”, training, and schedule of sessions for education to be provided to all construction personnel. All evidence of the training session materials, handout(s) and schedule shall be submitted to the Community Development Director within 24 hours of the first training session. Multiple training sessions may be conducted if different work crews will come to the site for different stages of construction; however, all construction personnel shall be provided training prior to beginning work. The evidence submitted to the Community Development Director regarding the “Valley Fever Training Handout” and Session(s) shall include the following:

- A sign-in sheet (to include the printed employee names, signature, and date) for all employees who attended the training session.
- Distribution of a written flier or brochure that includes educational information regarding the health effects of exposure to criteria pollutant emissions and Valley Fever.
- Training on methods that may help prevent Valley Fever infection.
- A demonstration to employees on how to use personal protective equipment, such as respiratory equipment (masks), to reduce exposure to pollutants and facilitate recognition of symptoms and earlier treatment of Valley Fever. Where respirators are required, the equipment shall be readily available and shall be provided to employees for use during work. Proof that the demonstration is included in the training shall be submitted to the county. This proof can be via printed training materials/agenda, DVD, digital media files, or photographs.

The project operator also shall consult with the Los Angeles County Public Health to develop a Valley Fever Dust Management Plan that addresses the potential presence of the *Coccidioides* spore and mitigates for the potential for *Coccidioidomycosis* (Valley Fever). Prior to issuance of permits, the project operator shall submit the Plan to the Los Angeles County Public Health for review and comment. The Plan shall include a program to evaluate the potential for exposure to Valley Fever from construction activities and to identify appropriate safety procedures that shall be implemented, as needed, to minimize personnel and public exposure to potential *Coccidioides* spores. Measures in the Plan shall include the following:

- Provide HEP-filters for heavy equipment equipped with factory enclosed cabs capable of accepting the filters. Cause contractors utilizing applicable heavy equipment to furnish proof of worker training on proper use of applicable heavy equipment cabs, such as turning on air conditioning prior to using the equipment.
- Provide communication methods, such as two-way radios, for use in enclosed cabs.
- Require National Institute for Occupational Safety and Health (NIOSH)-approved half-face respirators equipped with minimum N-95 protection factor for use during worker collocation with surface disturbance activities, as required per the hazard assessment process.
- Cause employees to be medically evaluated, fit-tested, and properly trained on the use of the respirators, and implement a full respiratory protection program in accordance with the applicable Cal/OSHA Respiratory Protection Standard (8 CCR 5144).
- Provide separate, clean eating areas with hand-washing facilities.

- Install equipment inspection stations at each construction equipment access/egress point. Examine construction vehicles and equipment for excess soil material and clean, as necessary, before equipment is moved off-site.
- Train workers to recognize the symptoms of Valley Fever, and to promptly report suspected symptoms of work-related Valley Fever to a supervisor.
- Work with a medical professional to develop a protocol to medically evaluate employees who develop symptoms of Valley Fever.
- Work with a medical professional, in consultation with the Los Angeles County Public Health, to develop an educational handout for on-site workers and surrounding residents within three miles of the project site, and include the following information on Valley Fever: what are the potential sources/causes, what are the common symptoms, what are the options or remedies available should someone be experiencing these symptoms, and where testing for exposure is available. Prior to construction permit issuance, this handout shall have been created by the project operator and reviewed by the project operator and reviewed by the Development Services Director. No less than 30 days prior to any work commencing, this handout shall be mailed to all existing residences within a specified radius of the project boundaries as determined by the Development Services Director. The radius shall not exceed three miles and is dependent upon the location of the project site.
- When possible, position workers upwind or crosswind when digging a trench or performing other soil-disturbing tasks.
- Prohibit smoking at the worksite outside of designated smoking areas; designated smoking areas will be equipped with handwashing facilities.
- Post warnings on-site and consider limiting access to visitors, especially those without adequate training and respiratory protection.
- Audit and enforce compliance with relevant Cal OSHA health and safety standards on the job site.

DURING OPERATION, *LESS THAN SIGNIFICANT WITH MITIGATION*. As discussed in Impact AQ-2, the main contributor to threshold exceedances during operations is mobile sources. The PVSP would generate emissions from area, energy, and mobile sources, though the source of concern for exposing sensitive receptors to substantial pollutant concentrations would be mobile sources, and more specifically CO, VOC and PM10 (fugitive dust) emissions. With the implementation of MM AQ-1 and MM AQ-2, CO, VOC and PM10 emissions would be reduced due to a decrease in VMTs, and impacts would be less than significant with mitigation.

Impact AQ-4: Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

DURING CONSTRUCTION, *LESS THAN SIGNIFICANT*. The PVSP could generate potentially objectionable odors that would be temporarily created during construction activities, primarily from paving operations associated with the construction of future development. Asphalt and coating odors would be temporary, not overly offensive or regularly experienced in an urban/suburban setting. Other minor odor sources during construction and operation include tailpipe emissions from off-road equipment and on-road vehicles used during construction. During construction, there would be no other emissions or odors that would adversely affect a substantial number of people. The closest residential use to the PVSP area would be approximately 50 feet away from on-site activities. The PVSP area would be developed in stages, not all

at once, and therefore there would not be a substantial number of people exposed to odors for an extended period of time. Therefore, there would be no impact.

DURING OPERATION, LESS THAN SIGNIFICANT. There would be no potential emissions that lead to odors, that would adversely affect a substantial number of people. Proposed land uses would include residences, commercial and retail, medical, park, and mixed use. None of these uses would emit particularly offensive odors. Therefore, impacts would be less than significant.

9. GHG EMISSIONS IMPACTS

Impact GHG-1: Would the project generate greenhouse gas emissions, either directly or indirectly, that may have an impact on the environment?

LESS THAN SIGNIFICANT. The PVSP would cause GHG emissions due to construction activities and during operation. The proposed construction activities include mobilizing construction equipment, crews, and materials, excavating, and installing concrete foundations and equipment. These activities during construction would cause GHG emissions due to fuels used by the construction vehicles and equipment. Diesel and gasoline-powered construction equipment would include trucks for materials and crews, and the following types of equipment: grader, bulldozer, front-end loader, excavator, and a crane. Equipment and motor vehicles would directly emit CO₂, CH₄, and N₂O due to fuel use and combustion.

Table GHG-1 summarizes the GHG emissions during construction overall and as an annualized sum equally distributed over the 20-year buildout schedule.

Table GHG-1. Parkway Village Specific Plan: GHG Emissions Unmitigated

Activity	During Construction (MTCO ₂ e)	Construction and Operations, Annualized (MTCO ₂ e per year)	PVSP GHG Emissions (MTCO ₂ e per year)
Total, Duration of Construction	7,434	—	—
Construction Total, 20-year Annualized	—	372	372
Operations	—	45,623	45,623
Total GHG, Construction and Operations			45,995

Source: Attachment 1, AQ/GHG Emissions Inventory.¹

Table GHG-2 separates operational GHG emissions by source category, with mobile and energy sources contributing the most to total GHG emissions.

Total construction emissions over the course of the 20-year buildout are estimated to be approximately 7,434 MTCO₂e. The average rate of GHG emissions from construction would be 372 MTCO₂e/yr. After a full build out of the project area, operational emissions including area, energy, and mobile sources would be approximately 45,623 MTCO₂e/yr. Together, the unmitigated estimated PVSP GHG emissions would be 45,995 MTCO₂e/yr. This would be below the AVAQMD threshold of 100,000 tons of CO₂e (90,719 MT CO₂e) per year.

Table GHG-2. Parkway Village Specific Plan: Operational GHG Emissions by Source Unmitigated (MT CO₂e/yr)

Mobile	29,646
Area	914
Energy	10,833
Water	687
Waste	3,498
Refrigerant	45
Total	45,623

Source: Attachment 1, AQ/GHG Emissions Inventory.¹

While the unmitigated GHG emissions are well below the applicable threshold, with implementation of Mitigation Measures AQ-1 and MM AQ-2, GHG emissions would be reduced. The reductions in emissions

achieved with the mitigation are shown in Tables GHG-3 and GHG-4. MM AQ-1 and MM AQ-2 are not required for reducing GHG, but for informational purposes the GHG emissions reduction is tabulated here.

Table GHG-3. Parkway Village Specific Plan: GHG Emissions Mitigated

Activity	During Construction (MTCO ₂ e)	Construction and Operations, Annualized (MTCO ₂ e per year)	PVSP GHG Emissions (MTCO ₂ e per year)
Total, Duration of Construction	7,434	—	—
Construction Total, 20-year Annualized	—	372	372
Operations	—	39,122	39,122
Total GHG, Construction and Operations			39,494

Source: Attachment 1, AQ/GHG Emissions Inventory.¹

Table GHG-4 separates mitigated GHG emissions by source category, with mobile and energy sources contributing the most to total GHG emissions.

The quantity of GHG emissions generated by the PVSP would not exceed the AVAQMD threshold level and would not be likely to cause a significant impact on the environment. This impact would be less than significant.

Table GHG-4. Parkway Village Specific Plan: Operational GHG Emissions by Source Mitigated (MT CO₂e/yr)

Mobile	27,700
Area	0
Energy	7,211
Water	669
Waste	3,498
Refrigerant	45
Total	39,122

Source: Attachment 1, AQ/GHG Emissions Inventory.¹

Impact GHG-2: Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?

DURING CONSTRUCTION AND OPERATION, LESS THAN SIGNIFICANT.

The PVSP would include the construction and operation of residences, commercial buildings, a fire station, and school that would be required to comply with the most recent California Building Code, including Title 24, Part 6 of the CCR, known as the Energy Efficiency Standards for Residential and Nonresidential Buildings. These standards require new construction to incorporate energy efficiency technologies and methods to reduce energy consumption throughout the State. The CALGreen Code (Title 24, Part 11) was incorporated into the CBC in 2010 to add further energy-efficiency building standards through which the Plan's energy consumption, while also reducing GHG emissions.

The City of Lancaster CAP documents the City's GHG emissions inventories and the progress the City has made through its alternative energy and sustainability programs. It also outlines how the City would meet the State GHG reduction targets for 2020 and make substantial progress towards achieving the post-2020 targets. Numerous measures within the CAP are applicable to the PVSP, and the consistency of PVSP with the applicable CAP measures is as follows:

- 4.1.2b: Bike Lanes. Installation of Class I, Class II, and Class III bike lanes to provide safe cycling facilities for residents.

The PVSP includes a network of bikeways including Class I, II and III bike lanes throughout the plan area. Thus, the Plan would be consistent with measure 4.1.2.b.

- 4.1.2c: Pedestrian Amenities. Provide pedestrian amenities throughout the City to encourage walking instead of driving.

The PVSP includes a network of pedestrian access, including multi-use trails and multi-purpose pathways. Sidewalks and traffic calming measures would also be incorporated to improve pedestrian accessibility and safety throughout the project site and surrounding areas. Thus, the Plan would be consistent with CAP Measure Code 4.1.2c.

- 4.8.1d: Infill Development Opportunities. Provide incentives to encourage developers to build on infill sites.

The current site on which the PVSP will be built out is currently largely undeveloped and located near the urban city core. While the buildout would impact vacant, undeveloped land, the land uses proposed within the plan would be consistent with surrounding existing land uses including single- and multi-family residences, schools, commercial uses, and medical uses. The PVSP would be consistent with CAP Measure Code 4.1.2d.

Additionally, the PVSP would comply with the City's ZNE Ordinance. Developers would have three options designed to benefit the homeowner and available to comply with the City's ZNE requirement: a solar component, mitigation fees in lieu of a solar component, or a combination of both. Through compliance with existing code and features provided with the PVSP, this impact would be less than significant.

10. REFERENCES

- ARB (Air Resources Board). 2022. Draft Scoping Plan Update. Dated: May 10, 2022. Accessed August 6, 2022. <https://ww2.arb.ca.gov/sites/default/files/2022-05/2022-draft-sp.pdf>.
- _____. 2017. California's 2017 Climate Change Scoping Plan. November. Accessed August 6, 2022. https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf.
- _____. 2016. Ambient Air Quality Standards. <https://ww2.arb.ca.gov/sites/default/files/2020-03/aaqs20.pdf>.
- _____. 2005. Air Quality and Land Use Handbook: A Community Health Perspective. April. <https://www.arb.ca.gov/ch/handbook.pdf>.
- AVAQMD (Antelope Valley Air Quality Management District). 2017. Attainment Status. <https://avaqmd.ca.gov/files/e0986ab83/AVAQMD+2017+Attainment+Status+Table.pdf>.
- _____. 2016. California Environmental Quality Act (CEQA) and Federal Conformity Guidelines. August. <https://avaqmd.ca.gov/files/818bd8682/AVCEQA2016+Updated+Contact+Info.pdf>.
- Cal-Adapt. 2022. Local Climate Change Snapshot, for Lancaster, California. Accessed July 28, 2022. <https://cal-adapt.org/tools/local-climate-change-snapshot>.
- CDPH (California Department of Public Health). 2022. Occupational Health Branch, Preventing Work-Related Valley Fever. Accessed August 5, 2022. <https://www.cdph.ca.gov/Programs/CCDC/DEODC/OHB/Pages/Cocci.aspx>.
- _____. 2020. Epidemiologic Summary of Valley Fever in California, 2019. September. Accessed August 5, 2022. <https://www.cdph.ca.gov/Programs/CID/DCDC/CDPH%20Document%20Library/CocciEpiSummary2019.pdf>.
- City of Lancaster. 2017. Staff Report, Adoption of the Climate Action Plan. https://lancaster.granicus.com/MetaViewer.php?view_id=&clip_id=1471&meta_id=81196.
- _____. 2016. Draft Climate Action Plan. June. <https://www.cityoflancasterca.org/home/showpublisheddocument/32356>.
- Los Angeles County, Public Health Department. 2018. Acute Communicable Disease Control, 2016 Annual Report. Accessed August 5, 2022. <http://publichealth.lacounty.gov/acd/Diseases/Cocci.pdf>.

Attachment 1

AQ/GHG EMISSIONS INVENTORY

Air Pollutant Emissions

Maximum Construction Emissions						
Daily	VOC	NOx	CO	SOx	PM10	PM2.5
	lbs/day					
	23.62	26.44	31.71	0.07	80.41	17.17
Annual	VOC	NOx	CO	SOx	PM10	PM2.5
	tons/year					
	3.08	3.26	3.95	0.01	9.62	1.84

Maximum Operation Emissions Unmitigated						
Daily	VOC	NOx	CO	SOx	PM10	PM2.5
	lbs/day					
Mobile	117.22	70.89	809.04	2.05	89.95	23.88
Area	133.54	20.32	277.96	0.13	1.67	1.62
Energy	3.35	29.37	17.75	0.18	2.31	2.31
Total	254.11	120.59	1104.76	2.36	93.93	27.81
Annual	VOC	NOx	CO	SOx	PM10	PM2.5
	tons/year					
Mobile	17.70	12.51	115.00	0.32	14.70	3.91
Area	21.17	0.95	24.64	0.01	0.08	0.07
Energy	0.61	5.36	3.24	0.03	0.42	0.42
Total	39.49	18.82	142.88	0.35	15.20	4.40

Maximum Operation Emissions Mitigated						
Daily	VOC	NOx	CO	SOx	PM10	PM2.5
	lbs/day					
Mobile	109.52	66.24	755.93	1.92	84.04	22.32
Area	92.47	0.00	0.00	0.00	0.00	0.00
Energy	1.39	12.67	10.64	0.08	0.96	0.96
Total	203.39	78.91	766.57	2.00	85.00	23.28
Annual	VOC	NOx	CO	SOx	PM10	PM2.5
	tons/year					
Mobile	16.54	11.69	107.45	0.29	13.74	3.65
Area	16.88	0.00	0.00	0.00	0.00	0.00
Energy	0.25	2.31	1.94	0.01	0.18	0.18
Total	33.67	14.00	109.39	0.31	13.91	3.82

GHG Emissions

Construction Emissions	
Total (MTCO2e)	7433
Amortized over 20 years (MTCO2e/yr)	372

Construction Emissions	
Total (MTCO2e)	7433
Amortized over 20 years (MTCO2e/yr)	372

Operation Emissions	
Source	MTCO2e/yr
Mobile	29,646
Area	914
Energy	10,833
Water	687
Waste	3,498
Refrigerant	45
Total	45,623

Operation Emissions Mitigated	
Source	MTCO2e/yr
Mobile	27,700
Area	0
Energy	7,211
Water	669
Waste	3,498
Refrigerant	45
Total	39,122

Total Yearly GHG Emissions (MTCO2e/yr)	45,995
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Total Yearly GHG Emissions (MTCO2e/yr)	39,494
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Off-Road Equipment

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3	8	367	0.4
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4	8	84	0.37
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1	8	367	0.4
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2	8	84	0.37
Building Construction	Cranes	Diesel	Average	1	7	367	0.29
Building Construction	Forklifts	Diesel	Average	3	8	82	0.2
Building Construction	Generator Sets	Diesel	Average	1	8	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3	7	84	0.37
Building Construction	Welders	Diesel	Average	1	8	46	0.45
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equipment	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1	6	37	0.48

Construction Vehicles

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation				
Site Preparation	Worker	40	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10	10.2	HHDT,MHDT
Site Preparation	Hauling	10	20	HHDT
Site Preparation	Onsite truck	10	4	HHDT
Grading				
Grading	Worker	40	18.5	LDA,LDT1,LDT2
Grading	Vendor	10	10.2	HHDT,MHDT
Grading	Hauling	10	20	HHDT
Grading	Onsite truck	10	4	HHDT
Building Construction				
Building Construction	Worker	40	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10	10.2	HHDT,MHDT
Building Construction	Hauling	10	20	HHDT
Building Construction	Onsite truck	10	4	HHDT
Paving				
Paving	Worker	40	18.5	LDA,LDT1,LDT2
Paving	Vendor	10	10.2	HHDT,MHDT
Paving	Hauling	10	20	HHDT
Paving	Onsite truck	10	4	HHDT
Architectural Coating				
Architectural Coating	Worker	40	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10	10.2	HHDT,MHDT
Architectural Coating	Hauling	10	20	HHDT
Architectural Coating	Onsite truck	10	4	HHDT

Parkway Village Construction v2 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Parkway Village Construction v2
Construction Start Date	1/1/2025
Operational Year	2050
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	4.50
Precipitation (days)	13.0
Location	34.66359750415421, -118.13738028739783
County	Los Angeles-Mojave Desert
City	Lancaster
Air District	Antelope Valley AQMD
Air Basin	Mojave Desert
TAZ	3664
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

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	1,188	Dwelling Unit	79.2	0.00	100	0.00	3,516	—

Elementary School	378	1000sqft	8.68	378,000	100	0.00	—	—
City Park	27.8	Acre	27.8	0.00	32.1	0.00	—	—
Medical Office Building	675	1000sqft	14.3	650,000	100	0.00	—	—
Apartments Mid Rise	1,712	Dwelling Unit	45.0	1,643,520	99.0	0.00	5,068	—
Single Family Housing	485	Dwelling Unit	60.6	945,750	6,477,209	0.00	1,436	—
General Office Building	415	1000sqft	18.8	415,000	100,000	0.00	—	—
Health Club	79.0	1000sqft	9.80	185,000	100,000	0.00	234	—
Road Construction	20.0	Mile	40.2	0.00	0.00	—	—	—
Hotel	108	Room	3.60	150,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Transportation	T-18	Provide Pedestrian Network Improvement
Transportation	T-19-B	Construct or Improve Bike Boulevard
Transportation	T-20	Expand Bikeway Network
Transportation	T-22-A	Implement Pedal (Non-Electric) Bikeshare Program
Transportation	T-22-B	Implement Electric Bikeshare Program
Transportation	T-34*	Provide Bike Parking
Transportation	T-35*	Provide Traffic Calming Measures
Transportation	T-47*	Provide Bike Parking Near Transit
Transportation	T-51*	Install Park-and-Ride Lots
Energy	E-2	Require Energy Efficient Appliances
Energy	E-12-A	Install Alternative Type of Water Heater in Place of Gas Storage Tank Heater in Residences

Energy	E-12-B	Install Electric Space Heater in Place of Natural Gas Heaters in Residences
Energy	E-13	Install Electric Ranges in Place of Gas Ranges
Energy	E-15	Require All-Electric Development
Water	W-2	Use Grey Water
Water	W-5	Design Water-Efficient Landscapes
Area Sources	AS-1	Use Low-VOC Cleaning Supplies
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	AS-2	Use Low-VOC Paints
Area Sources	E-14	Limit Wood Burning Devices and Natural Gas/Propane Fireplaces in Residential Development

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	18.2	26.4	31.7	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,108	8,108	0.28	0.22	3.19	8,184
Mit.	18.2	18.2	26.4	31.7	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,108	8,108	0.28	0.22	3.19	8,184
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.2	18.2	26.5	30.8	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,051	8,051	0.28	0.22	0.08	8,124
Mit.	18.2	18.2	26.5	30.8	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,051	8,051	0.28	0.22	0.08	8,124

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.0	13.0	17.9	21.7	0.04	0.72	52.0	52.7	0.66	9.45	10.1	—	5,225	5,225	0.18	0.15	0.98	5,277
Mit.	13.0	13.0	17.9	21.7	0.04	0.72	52.0	52.7	0.66	9.45	10.1	—	5,225	5,225	0.18	0.15	0.98	5,277
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.38	2.37	3.26	3.95	0.01	0.13	9.49	9.62	0.12	1.72	1.84	—	865	865	0.03	0.03	0.16	874
Mit.	2.38	2.37	3.26	3.95	0.01	0.13	9.49	9.62	0.12	1.72	1.84	—	865	865	0.03	0.03	0.16	874
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.70	3.12	26.4	31.7	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,108	8,108	0.28	0.22	3.19	8,184
2031	3.37	2.86	21.8	29.7	0.07	0.87	68.9	69.8	0.80	9.73	10.5	—	8,073	8,073	0.27	0.22	2.87	8,149
2032	1.27	1.09	9.03	15.7	0.03	0.24	59.7	59.9	0.22	6.08	6.29	—	3,841	3,841	0.10	0.18	2.58	3,900
2033	1.24	1.05	8.80	15.6	0.03	0.22	59.7	59.9	0.20	6.08	6.28	—	3,811	3,811	0.10	0.18	2.31	3,870
2034	1.21	1.02	8.63	15.4	0.03	0.21	59.7	59.9	0.19	6.08	6.26	—	3,784	3,784	0.10	0.16	2.04	3,835
2035	1.19	1.00	8.42	15.2	0.03	0.19	59.7	59.9	0.18	6.08	6.25	—	3,760	3,760	0.10	0.16	1.78	3,810
2036	1.15	0.98	8.19	15.0	0.03	0.18	59.7	59.9	0.17	6.08	6.24	—	3,738	3,738	0.10	0.16	1.55	3,788
2037	1.13	0.97	8.04	14.8	0.03	0.17	59.7	59.8	0.16	6.08	6.23	—	3,719	3,719	0.10	0.15	1.35	3,769
2038	0.80	0.70	6.42	11.9	0.02	0.13	59.7	59.8	0.12	6.08	6.19	—	2,819	2,819	0.07	0.14	1.16	2,864

2039	0.78	0.69	6.34	11.8	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,805	2,805	0.07	0.14	1.00	2,850
2040	0.77	0.68	6.31	11.8	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,793	2,793	0.07	0.14	0.86	2,838
2041	0.76	0.66	6.21	11.7	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,783	2,783	0.07	0.14	0.73	2,827
2042	0.75	0.64	6.16	11.6	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,774	2,774	0.07	0.14	0.63	2,818
2043	0.74	0.63	6.12	11.6	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,767	2,767	0.07	0.14	0.54	2,810
2044	18.2	18.2	6.10	11.5	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,760	2,760	0.07	0.14	0.46	2,804
2045	18.2	18.2	1.73	2.90	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,378	1,378	0.01	0.13	0.40	1,417
2046	18.2	18.2	1.73	2.88	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,373	1,373	0.01	0.13	0.34	1,412
2047	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,370	1,370	0.01	0.13	0.29	1,408
2048	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,367	1,367	0.01	0.13	0.26	1,405
2049	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,364	1,364	0.01	0.12	0.22	1,401
2050	18.2	18.2	1.73	2.85	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,362	1,362	0.01	0.12	0.20	1,399
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.68	3.11	26.5	30.8	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,051	8,051	0.28	0.22	0.08	8,124
2031	3.35	2.84	21.9	28.8	0.07	0.87	68.9	69.8	0.80	9.73	10.5	—	8,017	8,017	0.28	0.22	0.07	8,090
2032	1.25	1.05	9.12	14.9	0.03	0.24	59.7	59.9	0.22	6.08	6.29	—	3,786	3,786	0.11	0.18	0.07	3,842
2033	1.22	1.03	8.88	14.8	0.03	0.22	59.7	59.9	0.20	6.08	6.28	—	3,757	3,757	0.11	0.18	0.06	3,813
2034	1.20	1.01	8.70	14.7	0.03	0.21	59.7	59.9	0.19	6.08	6.26	—	3,731	3,731	0.10	0.17	0.05	3,785
2035	1.16	0.99	8.50	14.5	0.03	0.19	59.7	59.9	0.18	6.08	6.25	—	3,707	3,707	0.10	0.17	0.05	3,761
2036	1.14	0.97	8.25	14.3	0.03	0.18	59.7	59.9	0.17	6.08	6.24	—	3,686	3,686	0.10	0.16	0.04	3,735
2037	1.12	0.95	8.10	14.1	0.03	0.17	59.7	59.8	0.16	6.08	6.23	—	3,668	3,668	0.10	0.15	0.03	3,717
2038	0.79	0.69	6.51	11.4	0.02	0.13	59.7	59.8	0.12	6.08	6.19	—	2,768	2,768	0.07	0.14	0.03	2,812
2039	0.78	0.68	6.41	11.3	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,755	2,755	0.07	0.14	0.03	2,799
2040	0.77	0.67	6.37	11.2	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,743	2,743	0.07	0.14	0.02	2,787
2041	0.75	0.64	6.29	11.2	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,733	2,733	0.07	0.14	0.02	2,776
2042	0.74	0.63	6.24	11.1	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,725	2,725	0.07	0.14	0.02	2,768
2043	0.73	0.62	6.18	11.1	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,717	2,717	0.07	0.14	0.01	2,761

2044	18.2	18.2	6.17	11.1	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,711	2,711	0.07	0.14	0.01	2,755
2045	18.2	18.2	1.79	2.45	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,329	1,329	0.01	0.13	0.01	1,368
2046	18.2	18.2	1.79	2.43	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,325	1,325	0.01	0.13	0.01	1,364
2047	18.2	18.2	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,322	1,322	0.01	0.13	0.01	1,360
2048	18.2	18.2	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,319	1,319	0.01	0.13	0.01	1,357
2049	18.2	18.1	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,316	1,316	0.01	0.13	0.01	1,355
2050	18.2	18.1	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,314	1,314	0.01	0.12	0.01	1,351
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	2.56	2.16	17.9	21.7	0.04	0.72	52.0	52.7	0.66	9.45	10.1	—	5,225	5,225	0.18	0.15	0.98	5,277
2031	1.57	1.33	10.6	15.2	0.03	0.38	44.0	44.4	0.35	5.33	5.68	—	4,051	4,051	0.13	0.15	0.89	4,098
2032	0.90	0.76	6.52	10.8	0.02	0.17	41.2	41.4	0.16	4.20	4.36	—	2,720	2,720	0.08	0.13	0.80	2,761
2033	0.88	0.74	6.33	10.7	0.02	0.15	41.1	41.3	0.14	4.19	4.33	—	2,692	2,692	0.08	0.13	0.71	2,733
2034	0.86	0.72	6.21	10.6	0.02	0.15	41.1	41.3	0.14	4.19	4.32	—	2,673	2,673	0.08	0.12	0.63	2,712
2035	0.83	0.71	6.06	10.5	0.02	0.14	41.1	41.3	0.13	4.19	4.32	—	2,656	2,656	0.07	0.12	0.55	2,695
2036	0.82	0.70	5.91	10.4	0.02	0.13	41.2	41.4	0.12	4.20	4.32	—	2,648	2,648	0.07	0.12	0.48	2,687
2037	0.79	0.68	5.74	10.1	0.02	0.12	41.1	41.2	0.11	4.19	4.30	—	2,599	2,599	0.07	0.11	0.41	2,634
2038	0.57	0.50	4.64	8.21	0.02	0.09	41.1	41.2	0.08	4.19	4.27	—	1,985	1,985	0.05	0.10	0.36	2,017
2039	0.56	0.48	4.57	8.16	0.02	0.09	41.1	41.2	0.08	4.19	4.27	—	1,976	1,976	0.05	0.10	0.31	2,007
2040	0.55	0.48	4.55	8.14	0.02	0.09	41.2	41.3	0.08	4.20	4.28	—	1,973	1,973	0.05	0.10	0.27	2,004
2041	0.54	0.46	4.48	8.07	0.02	0.08	41.1	41.2	0.07	4.19	4.26	—	1,960	1,960	0.05	0.10	0.23	1,991
2042	0.53	0.45	4.45	8.04	0.02	0.08	41.1	41.2	0.07	4.19	4.26	—	1,954	1,954	0.05	0.10	0.19	1,985
2043	0.52	0.45	4.40	8.01	0.02	0.07	41.1	41.2	0.07	4.19	4.26	—	1,949	1,949	0.05	0.10	0.17	1,980
2044	7.15	7.10	2.75	4.74	0.01	0.04	41.2	41.3	0.04	4.20	4.24	—	1,427	1,427	0.03	0.10	0.14	1,456
2045	13.0	13.0	1.27	1.82	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	957	957	0.01	0.09	0.12	985
2046	13.0	13.0	1.27	1.81	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	954	954	0.01	0.09	0.11	982
2047	13.0	13.0	1.27	1.80	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	951	951	0.01	0.09	0.09	979
2048	13.0	13.0	1.28	1.81	0.01	0.01	41.2	41.2	0.01	4.20	4.21	—	952	952	0.01	0.09	0.08	980
2049	13.0	13.0	1.27	1.80	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	948	948	0.01	0.09	0.07	975

2050	12.8	12.8	1.26	1.77	0.01	0.01	40.6	40.6	0.01	4.13	4.14	—	933	933	0.01	0.09	0.06	959
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.47	0.39	3.26	3.95	0.01	0.13	9.49	9.62	0.12	1.72	1.84	—	865	865	0.03	0.03	0.16	874
2031	0.29	0.24	1.94	2.78	0.01	0.07	8.03	8.10	0.06	0.97	1.04	—	671	671	0.02	0.02	0.15	678
2032	0.16	0.14	1.19	1.97	< 0.005	0.03	7.53	7.56	0.03	0.77	0.80	—	450	450	0.01	0.02	0.13	457
2033	0.16	0.13	1.16	1.95	< 0.005	0.03	7.50	7.53	0.03	0.76	0.79	—	446	446	0.01	0.02	0.12	452
2034	0.16	0.13	1.13	1.93	< 0.005	0.03	7.50	7.53	0.02	0.76	0.79	—	443	443	0.01	0.02	0.10	449
2035	0.15	0.13	1.11	1.91	< 0.005	0.03	7.50	7.53	0.02	0.76	0.79	—	440	440	0.01	0.02	0.09	446
2036	0.15	0.13	1.08	1.89	< 0.005	0.02	7.53	7.55	0.02	0.77	0.79	—	438	438	0.01	0.02	0.08	445
2037	0.14	0.12	1.05	1.85	< 0.005	0.02	7.50	7.53	0.02	0.76	0.78	—	430	430	0.01	0.02	0.07	436
2038	0.10	0.09	0.85	1.50	< 0.005	0.02	7.50	7.52	0.02	0.76	0.78	—	329	329	0.01	0.02	0.06	334
2039	0.10	0.09	0.83	1.49	< 0.005	0.02	7.50	7.52	0.01	0.76	0.78	—	327	327	0.01	0.02	0.05	332
2040	0.10	0.09	0.83	1.49	< 0.005	0.02	7.53	7.54	0.01	0.77	0.78	—	327	327	0.01	0.02	0.04	332
2041	0.10	0.08	0.82	1.47	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	325	325	0.01	0.02	0.04	330
2042	0.10	0.08	0.81	1.47	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	324	324	0.01	0.02	0.03	329
2043	0.10	0.08	0.80	1.46	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	323	323	0.01	0.02	0.03	328
2044	1.31	1.30	0.50	0.87	< 0.005	0.01	7.53	7.53	0.01	0.77	0.77	—	236	236	< 0.005	0.02	0.02	241
2045	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	163
2046	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	163
2047	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	162
2048	2.38	2.37	0.23	0.33	< 0.005	< 0.005	7.53	7.53	< 0.005	0.77	0.77	—	158	158	< 0.005	0.02	0.01	162
2049	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	157	157	< 0.005	0.02	0.01	161
2050	2.34	2.33	0.23	0.32	< 0.005	< 0.005	7.40	7.40	< 0.005	0.75	0.76	—	155	155	< 0.005	0.01	0.01	159

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.70	3.12	26.4	31.7	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,108	8,108	0.28	0.22	3.19	8,184
2031	3.37	2.86	21.8	29.7	0.07	0.87	68.9	69.8	0.80	9.73	10.5	—	8,073	8,073	0.27	0.22	2.87	8,149
2032	1.27	1.09	9.03	15.7	0.03	0.24	59.7	59.9	0.22	6.08	6.29	—	3,841	3,841	0.10	0.18	2.58	3,900
2033	1.24	1.05	8.80	15.6	0.03	0.22	59.7	59.9	0.20	6.08	6.28	—	3,811	3,811	0.10	0.18	2.31	3,870
2034	1.21	1.02	8.63	15.4	0.03	0.21	59.7	59.9	0.19	6.08	6.26	—	3,784	3,784	0.10	0.16	2.04	3,835
2035	1.19	1.00	8.42	15.2	0.03	0.19	59.7	59.9	0.18	6.08	6.25	—	3,760	3,760	0.10	0.16	1.78	3,810
2036	1.15	0.98	8.19	15.0	0.03	0.18	59.7	59.9	0.17	6.08	6.24	—	3,738	3,738	0.10	0.16	1.55	3,788
2037	1.13	0.97	8.04	14.8	0.03	0.17	59.7	59.8	0.16	6.08	6.23	—	3,719	3,719	0.10	0.15	1.35	3,769
2038	0.80	0.70	6.42	11.9	0.02	0.13	59.7	59.8	0.12	6.08	6.19	—	2,819	2,819	0.07	0.14	1.16	2,864
2039	0.78	0.69	6.34	11.8	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,805	2,805	0.07	0.14	1.00	2,850
2040	0.77	0.68	6.31	11.8	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,793	2,793	0.07	0.14	0.86	2,838
2041	0.76	0.66	6.21	11.7	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,783	2,783	0.07	0.14	0.73	2,827
2042	0.75	0.64	6.16	11.6	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,774	2,774	0.07	0.14	0.63	2,818
2043	0.74	0.63	6.12	11.6	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,767	2,767	0.07	0.14	0.54	2,810
2044	18.2	18.2	6.10	11.5	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,760	2,760	0.07	0.14	0.46	2,804
2045	18.2	18.2	1.73	2.90	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,378	1,378	0.01	0.13	0.40	1,417
2046	18.2	18.2	1.73	2.88	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,373	1,373	0.01	0.13	0.34	1,412
2047	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,370	1,370	0.01	0.13	0.29	1,408
2048	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,367	1,367	0.01	0.13	0.26	1,405
2049	18.2	18.2	1.73	2.86	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,364	1,364	0.01	0.12	0.22	1,401
2050	18.2	18.2	1.73	2.85	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,362	1,362	0.01	0.12	0.20	1,399
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.68	3.11	26.5	30.8	0.07	1.08	79.3	80.4	0.99	16.2	17.2	—	8,051	8,051	0.28	0.22	0.08	8,124
2031	3.35	2.84	21.9	28.8	0.07	0.87	68.9	69.8	0.80	9.73	10.5	—	8,017	8,017	0.28	0.22	0.07	8,090
2032	1.25	1.05	9.12	14.9	0.03	0.24	59.7	59.9	0.22	6.08	6.29	—	3,786	3,786	0.11	0.18	0.07	3,842

2033	1.22	1.03	8.88	14.8	0.03	0.22	59.7	59.9	0.20	6.08	6.28	—	3,757	3,757	0.11	0.18	0.06	3,813
2034	1.20	1.01	8.70	14.7	0.03	0.21	59.7	59.9	0.19	6.08	6.26	—	3,731	3,731	0.10	0.17	0.05	3,785
2035	1.16	0.99	8.50	14.5	0.03	0.19	59.7	59.9	0.18	6.08	6.25	—	3,707	3,707	0.10	0.17	0.05	3,761
2036	1.14	0.97	8.25	14.3	0.03	0.18	59.7	59.9	0.17	6.08	6.24	—	3,686	3,686	0.10	0.16	0.04	3,735
2037	1.12	0.95	8.10	14.1	0.03	0.17	59.7	59.8	0.16	6.08	6.23	—	3,668	3,668	0.10	0.15	0.03	3,717
2038	0.79	0.69	6.51	11.4	0.02	0.13	59.7	59.8	0.12	6.08	6.19	—	2,768	2,768	0.07	0.14	0.03	2,812
2039	0.78	0.68	6.41	11.3	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,755	2,755	0.07	0.14	0.03	2,799
2040	0.77	0.67	6.37	11.2	0.02	0.12	59.7	59.8	0.11	6.08	6.19	—	2,743	2,743	0.07	0.14	0.02	2,787
2041	0.75	0.64	6.29	11.2	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,733	2,733	0.07	0.14	0.02	2,776
2042	0.74	0.63	6.24	11.1	0.02	0.11	59.7	59.8	0.10	6.08	6.18	—	2,725	2,725	0.07	0.14	0.02	2,768
2043	0.73	0.62	6.18	11.1	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,717	2,717	0.07	0.14	0.01	2,761
2044	18.2	18.2	6.17	11.1	0.02	0.10	59.7	59.8	0.09	6.08	6.17	—	2,711	2,711	0.07	0.14	0.01	2,755
2045	18.2	18.2	1.79	2.45	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,329	1,329	0.01	0.13	0.01	1,368
2046	18.2	18.2	1.79	2.43	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,325	1,325	0.01	0.13	0.01	1,364
2047	18.2	18.2	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,322	1,322	0.01	0.13	0.01	1,360
2048	18.2	18.2	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,319	1,319	0.01	0.13	0.01	1,357
2049	18.2	18.1	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,316	1,316	0.01	0.13	0.01	1,355
2050	18.2	18.1	1.79	2.41	0.01	0.02	59.7	59.7	0.01	6.08	6.09	—	1,314	1,314	0.01	0.12	0.01	1,351
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	2.56	2.16	17.9	21.7	0.04	0.72	52.0	52.7	0.66	9.45	10.1	—	5,225	5,225	0.18	0.15	0.98	5,277
2031	1.57	1.33	10.6	15.2	0.03	0.38	44.0	44.4	0.35	5.33	5.68	—	4,051	4,051	0.13	0.15	0.89	4,098
2032	0.90	0.76	6.52	10.8	0.02	0.17	41.2	41.4	0.16	4.20	4.36	—	2,720	2,720	0.08	0.13	0.80	2,761
2033	0.88	0.74	6.33	10.7	0.02	0.15	41.1	41.3	0.14	4.19	4.33	—	2,692	2,692	0.08	0.13	0.71	2,733
2034	0.86	0.72	6.21	10.6	0.02	0.15	41.1	41.3	0.14	4.19	4.32	—	2,673	2,673	0.08	0.12	0.63	2,712
2035	0.83	0.71	6.06	10.5	0.02	0.14	41.1	41.3	0.13	4.19	4.32	—	2,656	2,656	0.07	0.12	0.55	2,695
2036	0.82	0.70	5.91	10.4	0.02	0.13	41.2	41.4	0.12	4.20	4.32	—	2,648	2,648	0.07	0.12	0.48	2,687
2037	0.79	0.68	5.74	10.1	0.02	0.12	41.1	41.2	0.11	4.19	4.30	—	2,599	2,599	0.07	0.11	0.41	2,634
2038	0.57	0.50	4.64	8.21	0.02	0.09	41.1	41.2	0.08	4.19	4.27	—	1,985	1,985	0.05	0.10	0.36	2,017

2039	0.56	0.48	4.57	8.16	0.02	0.09	41.1	41.2	0.08	4.19	4.27	—	1,976	1,976	0.05	0.10	0.31	2,007
2040	0.55	0.48	4.55	8.14	0.02	0.09	41.2	41.3	0.08	4.20	4.28	—	1,973	1,973	0.05	0.10	0.27	2,004
2041	0.54	0.46	4.48	8.07	0.02	0.08	41.1	41.2	0.07	4.19	4.26	—	1,960	1,960	0.05	0.10	0.23	1,991
2042	0.53	0.45	4.45	8.04	0.02	0.08	41.1	41.2	0.07	4.19	4.26	—	1,954	1,954	0.05	0.10	0.19	1,985
2043	0.52	0.45	4.40	8.01	0.02	0.07	41.1	41.2	0.07	4.19	4.26	—	1,949	1,949	0.05	0.10	0.17	1,980
2044	7.15	7.10	2.75	4.74	0.01	0.04	41.2	41.3	0.04	4.20	4.24	—	1,427	1,427	0.03	0.10	0.14	1,456
2045	13.0	13.0	1.27	1.82	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	957	957	0.01	0.09	0.12	985
2046	13.0	13.0	1.27	1.81	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	954	954	0.01	0.09	0.11	982
2047	13.0	13.0	1.27	1.80	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	951	951	0.01	0.09	0.09	979
2048	13.0	13.0	1.28	1.81	0.01	0.01	41.2	41.2	0.01	4.20	4.21	—	952	952	0.01	0.09	0.08	980
2049	13.0	13.0	1.27	1.80	0.01	0.01	41.1	41.1	0.01	4.19	4.20	—	948	948	0.01	0.09	0.07	975
2050	12.8	12.8	1.26	1.77	0.01	0.01	40.6	40.6	0.01	4.13	4.14	—	933	933	0.01	0.09	0.06	959
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.47	0.39	3.26	3.95	0.01	0.13	9.49	9.62	0.12	1.72	1.84	—	865	865	0.03	0.03	0.16	874
2031	0.29	0.24	1.94	2.78	0.01	0.07	8.03	8.10	0.06	0.97	1.04	—	671	671	0.02	0.02	0.15	678
2032	0.16	0.14	1.19	1.97	< 0.005	0.03	7.53	7.56	0.03	0.77	0.80	—	450	450	0.01	0.02	0.13	457
2033	0.16	0.13	1.16	1.95	< 0.005	0.03	7.50	7.53	0.03	0.76	0.79	—	446	446	0.01	0.02	0.12	452
2034	0.16	0.13	1.13	1.93	< 0.005	0.03	7.50	7.53	0.02	0.76	0.79	—	443	443	0.01	0.02	0.10	449
2035	0.15	0.13	1.11	1.91	< 0.005	0.03	7.50	7.53	0.02	0.76	0.79	—	440	440	0.01	0.02	0.09	446
2036	0.15	0.13	1.08	1.89	< 0.005	0.02	7.53	7.55	0.02	0.77	0.79	—	438	438	0.01	0.02	0.08	445
2037	0.14	0.12	1.05	1.85	< 0.005	0.02	7.50	7.53	0.02	0.76	0.78	—	430	430	0.01	0.02	0.07	436
2038	0.10	0.09	0.85	1.50	< 0.005	0.02	7.50	7.52	0.02	0.76	0.78	—	329	329	0.01	0.02	0.06	334
2039	0.10	0.09	0.83	1.49	< 0.005	0.02	7.50	7.52	0.01	0.76	0.78	—	327	327	0.01	0.02	0.05	332
2040	0.10	0.09	0.83	1.49	< 0.005	0.02	7.53	7.54	0.01	0.77	0.78	—	327	327	0.01	0.02	0.04	332
2041	0.10	0.08	0.82	1.47	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	325	325	0.01	0.02	0.04	330
2042	0.10	0.08	0.81	1.47	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	324	324	0.01	0.02	0.03	329
2043	0.10	0.08	0.80	1.46	< 0.005	0.01	7.50	7.52	0.01	0.76	0.78	—	323	323	0.01	0.02	0.03	328
2044	1.31	1.30	0.50	0.87	< 0.005	0.01	7.53	7.53	0.01	0.77	0.77	—	236	236	< 0.005	0.02	0.02	241

2045	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	163
2046	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	163
2047	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	158	158	< 0.005	0.02	0.02	162
2048	2.38	2.37	0.23	0.33	< 0.005	< 0.005	7.53	7.53	< 0.005	0.77	0.77	—	158	158	< 0.005	0.02	0.01	162
2049	2.37	2.37	0.23	0.33	< 0.005	< 0.005	7.50	7.51	< 0.005	0.76	0.77	—	157	157	< 0.005	0.02	0.01	161
2050	2.34	2.33	0.23	0.32	< 0.005	< 0.005	7.40	7.40	< 0.005	0.75	0.76	—	155	155	< 0.005	0.01	0.01	159

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	254	243	121	1,105	2.36	4.76	89.2	93.9	4.65	23.2	27.8	6,619	299,650	306,269	677	11.9	306	327,042
Mit.	203	197	78.9	767	2.00	1.68	83.3	85.0	1.64	21.6	23.3	6,619	240,482	247,101	674	11.1	304	267,578
% Reduced	20%	19%	35%	31%	16%	65%	7%	10%	65%	7%	16%	—	20%	19%	< 0.5%	6%	1%	18%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	217	208	124	685	2.17	4.53	89.2	93.7	4.49	23.2	27.6	6,619	280,857	287,476	678	12.2	274	308,333
Mit.	198	191	84.6	627	1.83	1.69	83.3	85.0	1.64	21.6	23.3	6,619	223,599	230,218	675	11.4	274	250,774
% Reduced	9%	8%	32%	8%	16%	63%	7%	9%	63%	7%	16%	—	20%	20%	< 0.5%	6%	< 0.5%	19%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	216	208	103	783	1.94	3.44	79.9	83.3	3.37	20.7	24.1	6,619	248,414	255,033	677	11.2	286	275,565
Mit.	185	179	76.7	599	1.69	1.61	74.6	76.2	1.57	19.4	21.0	6,619	209,413	216,032	674	10.5	285	236,301
% Reduced	15%	14%	26%	23%	13%	53%	7%	8%	53%	7%	13%	—	16%	15%	< 0.5%	6%	< 0.5%	14%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	39.5	38.0	18.8	143	0.35	0.63	14.6	15.2	0.62	3.79	4.40	1,096	41,128	42,224	112	1.85	47.3	45,623
Mit.	33.7	32.6	14.0	109	0.31	0.29	13.6	13.9	0.29	3.54	3.82	1,096	34,671	35,767	112	1.74	47.2	39,122
% Reduced	15%	14%	26%	23%	13%	53%	7%	8%	53%	7%	13%	—	16%	15%	< 0.5%	6%	< 0.5%	14%

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	117	111	70.9	809	2.05	0.77	89.2	89.9	0.72	23.2	23.9	—	209,344	209,344	6.73	9.86	33.1	212,483
Area	134	131	20.3	278	0.13	1.67	—	1.67	1.62	—	1.62	0.00	23,553	23,553	0.46	0.05	—	23,579
Energy	3.35	1.67	29.4	17.8	0.18	2.31	—	2.31	2.31	—	2.31	—	65,108	65,108	6.86	0.51	—	65,432
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,644	2,225	59.7	1.44	—	4,148
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	254	243	121	1,105	2.36	4.76	89.2	93.9	4.65	23.2	27.8	6,619	299,650	306,269	677	11.9	306	327,042
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	111	105	77.0	660	1.88	0.77	89.2	89.9	0.73	23.2	23.9	—	191,383	191,383	7.23	10.2	0.86	194,608
Area	102	101	17.9	7.62	0.11	1.45	—	1.45	1.45	—	1.45	0.00	22,721	22,721	0.43	0.04	—	22,745
Energy	3.35	1.67	29.4	17.8	0.18	2.31	—	2.31	2.31	—	2.31	—	65,108	65,108	6.86	0.51	—	65,432
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,644	2,225	59.7	1.44	—	4,148
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	217	208	124	685	2.17	4.53	89.2	93.7	4.49	23.2	27.6	6,619	280,857	287,476	678	12.2	274	308,333

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	97.0	91.6	68.5	630	1.73	0.69	79.9	80.6	0.65	20.7	21.4	—	176,146	176,146	6.47	9.20	12.9	179,064
Area	116	115	5.22	135	0.03	0.44	—	0.44	0.41	—	0.41	0.00	5,515	5,515	0.11	0.01	—	5,521
Energy	3.35	1.67	29.4	17.8	0.18	2.31	—	2.31	2.31	—	2.31	—	65,108	65,108	6.86	0.51	—	65,432
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,644	2,225	59.7	1.44	—	4,148
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	216	208	103	783	1.94	3.44	79.9	83.3	3.37	20.7	24.1	6,619	248,414	255,033	677	11.2	286	275,565
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.7	16.7	12.5	115	0.32	0.13	14.6	14.7	0.12	3.79	3.91	—	29,163	29,163	1.07	1.52	2.13	29,646
Area	21.2	20.9	0.95	24.6	0.01	0.08	—	0.08	0.07	—	0.07	0.00	913	913	0.02	< 0.005	—	914
Energy	0.61	0.31	5.36	3.24	0.03	0.42	—	0.42	0.42	—	0.42	—	10,779	10,779	1.14	0.08	—	10,833
Water	—	—	—	—	—	—	—	—	—	—	—	96.1	272	368	9.89	0.24	—	687
Waste	—	—	—	—	—	—	—	—	—	—	—	1,000	0.00	1,000	99.9	0.00	—	3,498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2	45.2
Total	39.5	38.0	18.8	143	0.35	0.63	14.6	15.2	0.62	3.79	4.40	1,096	41,128	42,224	112	1.85	47.3	45,623

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	110	104	66.2	756	1.92	0.72	83.3	84.0	0.68	21.6	22.3	—	195,599	195,599	6.29	9.21	30.9	198,532
Area	92.5	92.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	1.39	0.70	12.7	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	43,347	43,347	4.91	0.46	—	43,608
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,536	2,117	59.7	1.44	—	4,038
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	203	197	78.9	767	2.00	1.68	83.3	85.0	1.64	21.6	23.3	6,619	240,482	247,101	674	11.1	304	267,578
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	104	98.1	72.0	617	1.75	0.72	83.3	84.0	0.68	21.6	22.3	—	178,817	178,817	6.75	9.54	0.80	181,831
Area	92.5	92.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	1.39	0.70	12.7	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	43,246	43,246	4.90	0.46	—	43,505
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,536	2,117	59.7	1.44	—	4,038
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	198	191	84.6	627	1.83	1.69	83.3	85.0	1.64	21.6	23.3	6,619	223,599	230,218	675	11.4	274	250,774
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	90.6	85.5	64.0	589	1.61	0.65	74.6	75.3	0.61	19.4	20.0	—	164,581	164,581	6.04	8.60	12.0	167,307
Area	92.5	92.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	1.39	0.70	12.7	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	43,296	43,296	4.90	0.46	—	43,556
Water	—	—	—	—	—	—	—	—	—	—	—	581	1,536	2,117	59.7	1.44	—	4,038
Waste	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Total	185	179	76.7	599	1.69	1.61	74.6	76.2	1.57	19.4	21.0	6,619	209,413	216,032	674	10.5	285	236,301
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.5	15.6	11.7	107	0.29	0.12	13.6	13.7	0.11	3.54	3.65	—	27,248	27,248	1.00	1.42	1.99	27,700
Area	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.25	0.13	2.31	1.94	0.01	0.18	—	0.18	0.18	—	0.18	—	7,168	7,168	0.81	0.08	—	7,211
Water	—	—	—	—	—	—	—	—	—	—	—	96.1	254	350	9.89	0.24	—	669
Waste	—	—	—	—	—	—	—	—	—	—	—	1,000	0.00	1,000	99.9	0.00	—	3,498
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2	45.2
Total	33.7	32.6	14.0	109	0.31	0.29	13.6	13.9	0.29	3.54	3.82	1,096	34,671	35,767	112	1.74	47.2	39,122

3. Construction Emissions Details

3.1. Site Preparation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	131	131	< 0.005	0.02	0.20	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	132	132	< 0.005	0.02	0.01	138
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	1.43	1.20	10.4	11.7	0.02	0.44	—	0.44	0.40	—	0.40	—	2,176	2,176	0.09	0.02	—	2,184
Dust From Material Movement	—	—	—	—	—	—	8.08	8.08	—	4.15	4.15	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.05	< 0.005	< 0.005	23.3	23.3	< 0.005	2.33	2.33	—	54.1	54.1	< 0.005	0.01	0.04	56.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.89	2.13	< 0.005	0.08	—	0.08	0.07	—	0.07	—	360	360	0.01	< 0.005	—	362
Dust From Material Movement	—	—	—	—	—	—	1.47	1.47	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	4.26	4.26	< 0.005	0.43	0.43	—	8.95	8.95	< 0.005	< 0.005	0.01	9.38
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.14	2.90	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	530	530	0.01	0.02	1.51	538
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.45	278
Hauling	0.02	0.01	0.60	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	584	584	< 0.005	0.09	1.02	612
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	472	472	0.01	0.02	0.04	478
Vendor	0.01	0.01	0.27	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.01	277
Hauling	0.01	0.01	0.63	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	585	585	< 0.005	0.09	0.03	612
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	199	199	< 0.005	0.01	0.27	202

Vendor	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.08	114
Hauling	0.01	0.01	0.26	0.06	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	240	240	< 0.005	0.04	0.18	252
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	33.0	33.0	< 0.005	< 0.005	0.04	33.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.1	18.1	< 0.005	< 0.005	0.01	18.9
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.8	39.8	< 0.005	0.01	0.03	41.6

3.2. Site Preparation (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	131	131	< 0.005	0.02	0.20	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.47	2.92	25.2	28.4	0.05	1.07	—	1.07	0.98	—	0.98	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	132	132	< 0.005	0.02	0.01	138
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.43	1.20	10.4	11.7	0.02	0.44	—	0.44	0.40	—	0.40	—	2,176	2,176	0.09	0.02	—	2,184
Dust From Material Movement	—	—	—	—	—	—	8.08	8.08	—	4.15	4.15	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.10	0.05	< 0.005	< 0.005	23.3	23.3	< 0.005	2.33	2.33	—	54.1	54.1	< 0.005	0.01	0.04	56.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.89	2.13	< 0.005	0.08	—	0.08	0.07	—	0.07	—	360	360	0.01	< 0.005	—	362
Dust From Material Movement	—	—	—	—	—	—	1.47	1.47	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	4.26	4.26	< 0.005	0.43	0.43	—	8.95	8.95	< 0.005	< 0.005	0.01	9.38
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.14	2.90	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	530	530	0.01	0.02	1.51	538
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.45	278
Hauling	0.02	0.01	0.60	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	584	584	< 0.005	0.09	1.02	612

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	472	472	0.01	0.02	0.04	478
Vendor	0.01	0.01	0.27	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.01	277
Hauling	0.01	0.01	0.63	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	585	585	< 0.005	0.09	0.03	612
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	199	199	< 0.005	0.01	0.27	202
Vendor	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	109	109	< 0.005	0.02	0.08	114
Hauling	0.01	0.01	0.26	0.06	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	240	240	< 0.005	0.04	0.18	252
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	33.0	33.0	< 0.005	< 0.005	0.04	33.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.1	18.1	< 0.005	< 0.005	0.01	18.9
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	39.8	39.8	< 0.005	0.01	0.03	41.6

3.3. Grading (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	131	131	< 0.005	0.02	0.20	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	132	132	< 0.005	0.02	0.01	138
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.57	8.14	0.02	0.27	—	0.27	0.25	—	0.25	—	2,001	2,001	0.08	0.02	—	2,008
Dust From Material Movement	—	—	—	—	—	—	2.79	2.79	—	1.11	1.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	17.2	17.2	< 0.005	1.72	1.72	—	39.9	39.9	< 0.005	0.01	0.03	41.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.20	1.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	331	331	0.01	< 0.005	—	332
Dust From Material Movement	—	—	—	—	—	—	0.51	0.51	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.14	3.14	< 0.005	0.31	0.31	—	6.61	6.61	< 0.005	< 0.005	< 0.005	6.92

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.14	2.90	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	530	530	0.01	0.02	1.51	538
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.45	278
Hauling	0.02	0.01	0.60	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	584	584	< 0.005	0.09	1.02	612
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	472	472	0.01	0.02	0.04	478
Vendor	0.01	0.01	0.27	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.01	277
Hauling	0.01	0.01	0.63	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	585	585	< 0.005	0.09	0.03	612
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	147	147	< 0.005	0.01	0.20	149
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	80.7	80.7	< 0.005	0.01	0.06	84.1
Hauling	< 0.005	< 0.005	0.19	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	177	177	< 0.005	0.03	0.13	186
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.4	24.4	< 0.005	< 0.005	0.03	24.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.02	30.7

3.4. Grading (2030) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	131	131	< 0.005	0.02	0.20	138
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.72	21.7	26.9	0.06	0.88	—	0.88	0.81	—	0.81	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.26	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	132	132	< 0.005	0.02	0.01	138
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.57	8.14	0.02	0.27	—	0.27	0.25	—	0.25	—	2,001	2,001	0.08	0.02	—	2,008
Dust From Material Movement	—	—	—	—	—	—	2.79	2.79	—	1.11	1.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	17.2	17.2	< 0.005	1.72	1.72	—	39.9	39.9	< 0.005	0.01	0.03	41.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.20	1.49	< 0.005	0.05	—	0.05	0.05	—	0.05	—	331	331	0.01	< 0.005	—	332

Dust From Material Movement	—	—	—	—	—	—	0.51	0.51	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.14	3.14	< 0.005	0.31	0.31	—	6.61	6.61	< 0.005	< 0.005	< 0.005	6.92
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.14	2.90	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	530	530	0.01	0.02	1.51	538
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.45	278
Hauling	0.02	0.01	0.60	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	584	584	< 0.005	0.09	1.02	612
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.16	0.16	1.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	472	472	0.01	0.02	0.04	478
Vendor	0.01	0.01	0.27	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	266	266	< 0.005	0.04	0.01	277
Hauling	0.01	0.01	0.63	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	585	585	< 0.005	0.09	0.03	612
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	147	147	< 0.005	0.01	0.20	149
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	80.7	80.7	< 0.005	0.01	0.06	84.1
Hauling	< 0.005	< 0.005	0.19	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	177	177	< 0.005	0.03	0.13	186
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.4	24.4	< 0.005	< 0.005	0.03	24.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	0.02	30.7

3.5. Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	128	128	< 0.005	0.02	0.19	135
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	129	129	< 0.005	0.02	< 0.005	135
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.47	8.33	0.02	0.27	—	0.27	0.25	—	0.25	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	2.88	2.88	—	1.14	1.14	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	17.8	17.8	< 0.005	1.77	1.78	—	40.2	40.2	< 0.005	0.01	0.03	42.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.18	1.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	342	342	0.01	< 0.005	—	343
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.24	3.24	< 0.005	0.32	0.32	—	6.66	6.66	< 0.005	< 0.005	< 0.005	6.98
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.14	2.72	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.37	529
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	257	257	< 0.005	0.04	0.40	269
Hauling	0.02	0.01	0.58	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	569	569	< 0.005	0.09	0.93	598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.14	1.83	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	0.01	0.02	0.04	470
Vendor	0.01	0.01	0.26	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	258	258	< 0.005	0.04	0.01	269
Hauling	0.01	0.01	0.62	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	570	570	< 0.005	0.09	0.02	597
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.64	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.18	152
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	80.7	80.7	< 0.005	0.01	0.05	84.2
Hauling	< 0.005	< 0.005	0.19	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	178	178	< 0.005	0.03	0.13	187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.8	24.8	< 0.005	< 0.005	0.03	25.1

Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	< 0.005	< 0.005	0.02	31.0

3.6. Grading (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	128	128	< 0.005	0.02	0.19	135
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.17	2.66	20.6	26.6	0.06	0.86	—	0.86	0.79	—	0.79	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	129	129	< 0.005	0.02	< 0.005	135
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.99	0.83	6.47	8.33	0.02	0.27	—	0.27	0.25	—	0.25	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	2.88	2.88	—	1.14	1.14	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	17.8	17.8	< 0.005	1.77	1.78	—	40.2	40.2	< 0.005	0.01	0.03	42.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.18	1.52	< 0.005	0.05	—	0.05	0.05	—	0.05	—	342	342	0.01	< 0.005	—	343
Dust From Material Movement	—	—	—	—	—	—	0.53	0.53	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.24	3.24	< 0.005	0.32	0.32	—	6.66	6.66	< 0.005	< 0.005	< 0.005	6.98
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.14	2.72	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.37	529
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	257	257	< 0.005	0.04	0.40	269
Hauling	0.02	0.01	0.58	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	569	569	< 0.005	0.09	0.93	598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.14	1.83	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	0.01	0.02	0.04	470
Vendor	0.01	0.01	0.26	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	258	258	< 0.005	0.04	0.01	269
Hauling	0.01	0.01	0.62	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	570	570	< 0.005	0.09	0.02	597
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.64	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.18	152

Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	80.7	80.7	< 0.005	0.01	0.05	84.2
Hauling	< 0.005	< 0.005	0.19	0.05	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	178	178	< 0.005	0.03	0.13	187
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.8	24.8	< 0.005	< 0.005	0.03	25.1
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.9
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.5	29.5	< 0.005	< 0.005	0.02	31.0

3.7. Building Construction (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	128	128	< 0.005	0.02	0.19	135
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	129	129	< 0.005	0.02	< 0.005	135
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	0.44	0.37	3.26	5.15	0.01	0.10	—	0.10	0.09	—	0.09	—	962	962	0.04	0.01	—	965
Onsite truck	< 0.005	< 0.005	0.10	0.05	< 0.005	< 0.005	22.8	22.8	< 0.005	2.27	2.27	—	51.5	51.5	< 0.005	0.01	0.03	54.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.08	0.07	0.59	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	159	159	0.01	< 0.005	—	160
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	4.16	4.16	< 0.005	0.42	0.42	—	8.53	8.53	< 0.005	< 0.005	0.01	8.94
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.14	2.72	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.37	529
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	257	257	< 0.005	0.04	0.40	269
Hauling	0.02	0.01	0.58	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	569	569	< 0.005	0.09	0.93	598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.14	1.83	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	0.01	0.02	0.04	470
Vendor	0.01	0.01	0.26	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	258	258	< 0.005	0.04	0.01	269
Hauling	0.01	0.01	0.62	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	570	570	< 0.005	0.09	0.02	597
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.82	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	192	192	< 0.005	0.01	0.24	194
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	< 0.005	0.02	0.07	108
Hauling	0.01	0.01	0.25	0.06	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	229	229	< 0.005	0.04	0.16	240
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.04	32.2

Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.01	17.9
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.8	37.8	< 0.005	0.01	0.03	39.7

3.8. Building Construction (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	128	128	< 0.005	0.02	0.19	135
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	0.22	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	129	129	< 0.005	0.02	< 0.005	135
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	3.26	5.15	0.01	0.10	—	0.10	0.09	—	0.09	—	962	962	0.04	0.01	—	965
Onsite truck	< 0.005	< 0.005	0.10	0.05	< 0.005	< 0.005	22.8	22.8	< 0.005	2.27	2.27	—	51.5	51.5	< 0.005	0.01	0.03	54.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.07	0.59	0.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	159	159	0.01	< 0.005	—	160
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	4.16	4.16	< 0.005	0.42	0.42	—	8.53	8.53	< 0.005	< 0.005	0.01	8.94
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.14	2.72	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	522	522	0.01	0.02	1.37	529
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	257	257	< 0.005	0.04	0.40	269
Hauling	0.02	0.01	0.58	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	569	569	< 0.005	0.09	0.93	598
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	0.14	1.83	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	0.01	0.02	0.04	470
Vendor	0.01	0.01	0.26	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	258	258	< 0.005	0.04	0.01	269
Hauling	0.01	0.01	0.62	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	570	570	< 0.005	0.09	0.02	597
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.82	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	192	192	< 0.005	0.01	0.24	194
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	< 0.005	0.02	0.07	108
Hauling	0.01	0.01	0.25	0.06	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	229	229	< 0.005	0.04	0.16	240
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	31.7	31.7	< 0.005	< 0.005	0.04	32.2
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.01	17.9
Hauling	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.8	37.8	< 0.005	0.01	0.03	39.7

3.9. Building Construction (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	125	125	< 0.005	0.02	0.17	131
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	126	126	< 0.005	0.02	< 0.005	132
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.77	0.64	5.64	9.16	0.02	0.16	—	0.16	0.15	—	0.15	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	89.9	89.9	< 0.005	0.01	0.05	94.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.14	0.12	1.03	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.16	0.16	0.12	2.54	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	514	514	0.01	0.02	1.23	521
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	249	249	< 0.005	0.04	0.34	260
Hauling	0.02	0.01	0.57	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	555	555	< 0.005	0.09	0.84	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.14	1.71	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	457	457	0.01	0.02	0.03	463
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	250	250	< 0.005	0.04	0.01	260
Hauling	0.01	0.01	0.61	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	556	556	< 0.005	0.09	0.02	582
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.10	1.37	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	337	337	< 0.005	0.01	0.38	341
Vendor	0.01	0.01	0.18	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	186
Hauling	0.01	0.01	0.43	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	398	398	< 0.005	0.06	0.26	417
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	55.8	55.8	< 0.005	< 0.005	0.06	56.5
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.6	29.6	< 0.005	< 0.005	0.02	30.9
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	65.9	65.9	< 0.005	0.01	0.04	69.0

3.10. Building Construction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	125	125	< 0.005	0.02	0.17	131
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	126	126	< 0.005	0.02	< 0.005	132
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.77	0.64	5.64	9.16	0.02	0.16	—	0.16	0.15	—	0.15	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	89.9	89.9	< 0.005	0.01	0.05	94.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.14	0.12	1.03	1.67	< 0.005	0.03	—	0.03	0.03	—	0.03	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	14.9	14.9	< 0.005	< 0.005	0.01	15.6
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.12	2.54	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	514	514	0.01	0.02	1.23	521
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	249	249	< 0.005	0.04	0.34	260
Hauling	0.02	0.01	0.57	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	555	555	< 0.005	0.09	0.84	582
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.15	0.13	0.14	1.71	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	457	457	0.01	0.02	0.03	463
Vendor	0.01	0.01	0.25	0.10	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	250	250	< 0.005	0.04	0.01	260
Hauling	0.01	0.01	0.61	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	556	556	< 0.005	0.09	0.02	582
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.10	1.37	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	337	337	< 0.005	0.01	0.38	341
Vendor	0.01	0.01	0.18	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	186
Hauling	0.01	0.01	0.43	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	398	398	< 0.005	0.06	0.26	417
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	55.8	55.8	< 0.005	< 0.005	0.06	56.5
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.6	29.6	< 0.005	< 0.005	0.02	30.9
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	65.9	65.9	< 0.005	0.01	0.04	69.0

3.11. Building Construction (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	123	123	< 0.005	0.02	0.15	129
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	123	123	< 0.005	0.02	< 0.005	129
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	87.8	87.8	< 0.005	0.01	0.05	92.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.5	14.5	< 0.005	< 0.005	0.01	15.2
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.10	2.39	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	507	507	0.01	0.02	1.09	514
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	242	242	< 0.005	0.04	0.29	252
Hauling	0.02	0.01	0.56	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	543	543	< 0.005	0.09	0.77	570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	1.61	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	451	451	0.01	0.02	0.03	457
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	242	242	< 0.005	0.04	0.01	252
Hauling	0.01	0.01	0.60	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	544	544	< 0.005	0.09	0.02	569

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.30	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	332	332	< 0.005	0.01	0.34	336
Vendor	0.01	0.01	0.17	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	173	173	< 0.005	0.03	0.09	180
Hauling	0.01	0.01	0.42	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	388	388	< 0.005	0.06	0.24	407
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	54.9	54.9	< 0.005	< 0.005	0.06	55.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.6	28.6	< 0.005	< 0.005	0.01	29.8
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	64.2	64.2	< 0.005	0.01	0.04	67.3

3.12. Building Construction (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	123	123	< 0.005	0.02	0.15	129
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	123	123	< 0.005	0.02	< 0.005	129

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.75	0.63	5.48	9.13	0.02	0.15	—	0.15	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	87.8	87.8	< 0.005	0.01	0.05	92.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.14	0.11	1.00	1.67	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.5	14.5	< 0.005	< 0.005	0.01	15.2
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.10	2.39	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	507	507	0.01	0.02	1.09	514
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	242	242	< 0.005	0.04	0.29	252
Hauling	0.02	0.01	0.56	0.15	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	543	543	< 0.005	0.09	0.77	570
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.12	1.61	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	451	451	0.01	0.02	0.03	457
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	242	242	< 0.005	0.04	0.01	252
Hauling	0.01	0.01	0.60	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	544	544	< 0.005	0.09	0.02	569
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.30	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	332	332	< 0.005	0.01	0.34	336
Vendor	0.01	0.01	0.17	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	173	173	< 0.005	0.03	0.09	180
Hauling	0.01	0.01	0.42	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	388	388	< 0.005	0.06	0.24	407
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	54.9	54.9	< 0.005	< 0.005	0.06	55.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.6	28.6	< 0.005	< 0.005	0.01	29.8
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	64.2	64.2	< 0.005	0.01	0.04	67.3

3.13. Building Construction (2034) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	120	120	< 0.005	0.02	0.14	126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	121	121	< 0.005	0.02	< 0.005	127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	5.37	9.12	0.02	0.14	—	0.14	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	86.2	86.2	< 0.005	0.01	0.04	90.2

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.98	1.66	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.3	14.3	< 0.005	< 0.005	0.01	14.9
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.10	2.23	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	500	500	< 0.005	< 0.005	0.97	502
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	234	234	< 0.005	0.03	0.25	244
Hauling	0.02	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	532	532	< 0.005	0.08	0.69	557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	445	445	0.01	0.02	0.02	451
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	235	235	< 0.005	0.03	0.01	245
Hauling	0.01	0.01	0.59	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	533	533	< 0.005	0.08	0.02	557
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.09	1.20	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	327	327	< 0.005	0.01	0.30	332
Vendor	0.01	0.01	0.17	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	167	167	< 0.005	0.02	0.08	175
Hauling	0.01	0.01	0.42	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	380	380	< 0.005	0.06	0.21	398
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	54.2	54.2	< 0.005	< 0.005	0.05	54.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.01	28.9
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	63.0	63.0	< 0.005	0.01	0.03	65.9

3.14. Building Construction (2034) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.13	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	120	120	< 0.005	0.02	0.14	126
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	—	0.19	0.18	—	0.18	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.25	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	121	121	< 0.005	0.02	< 0.005	127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.74	0.62	5.37	9.12	0.02	0.14	—	0.14	0.13	—	0.13	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	86.2	86.2	< 0.005	0.01	0.04	90.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.98	1.66	< 0.005	0.03	—	0.03	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.3	14.3	< 0.005	< 0.005	0.01	14.9

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.10	2.23	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	500	500	< 0.005	< 0.005	0.97	502
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	234	234	< 0.005	0.03	0.25	244
Hauling	0.02	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	532	532	< 0.005	0.08	0.69	557
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.10	1.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	445	445	0.01	0.02	0.02	451
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	235	235	< 0.005	0.03	0.01	245
Hauling	0.01	0.01	0.59	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	533	533	< 0.005	0.08	0.02	557
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.09	1.20	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	327	327	< 0.005	0.01	0.30	332
Vendor	0.01	0.01	0.17	0.07	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	167	167	< 0.005	0.02	0.08	175
Hauling	0.01	0.01	0.42	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	380	380	< 0.005	0.06	0.21	398
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.22	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	54.2	54.2	< 0.005	< 0.005	0.05	54.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.7	27.7	< 0.005	< 0.005	0.01	28.9
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	63.0	63.0	< 0.005	0.01	0.03	65.9

3.15. Building Construction (2035) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	119	119	< 0.005	0.02	0.12	124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	119	119	< 0.005	0.02	< 0.005	125
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.61	5.24	9.06	0.02	0.13	—	0.13	0.12	—	0.12	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	84.8	84.8	< 0.005	0.01	0.04	88.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.96	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.0	14.0	< 0.005	< 0.005	0.01	14.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.08	2.11	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	494	494	< 0.005	< 0.005	0.85	495
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	228	228	< 0.005	0.03	0.21	238
Hauling	0.02	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	523	523	< 0.005	0.08	0.61	548

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.42	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	440	440	0.01	0.02	0.02	446
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	228	228	< 0.005	0.03	0.01	238
Hauling	0.01	0.01	0.58	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	524	524	< 0.005	0.08	0.02	548
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.13	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	323	323	< 0.005	0.01	0.26	327
Vendor	0.01	0.01	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	163	163	< 0.005	0.02	0.06	170
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	374	374	< 0.005	0.06	0.19	391
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	53.5	53.5	< 0.005	< 0.005	0.04	54.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.9	26.9	< 0.005	< 0.005	0.01	28.1
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	61.9	61.9	< 0.005	0.01	0.03	64.8

3.16. Building Construction (2035) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	119	119	< 0.005	0.02	0.12	124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	119	119	< 0.005	0.02	< 0.005	125
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.61	5.24	9.06	0.02	0.13	—	0.13	0.12	—	0.12	—	1,712	1,712	0.07	0.01	—	1,718
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	84.8	84.8	< 0.005	0.01	0.04	88.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.96	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	283	283	0.01	< 0.005	—	284
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	14.0	14.0	< 0.005	< 0.005	0.01	14.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.12	0.08	2.11	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	494	494	< 0.005	< 0.005	0.85	495
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	228	228	< 0.005	0.03	0.21	238
Hauling	0.02	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	523	523	< 0.005	0.08	0.61	548
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.42	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	440	440	0.01	0.02	0.02	446
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	228	228	< 0.005	0.03	0.01	238
Hauling	0.01	0.01	0.58	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	524	524	< 0.005	0.08	0.02	548
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.08	0.07	1.13	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	323	323	< 0.005	0.01	0.26	327
Vendor	0.01	0.01	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	163	163	< 0.005	0.02	0.06	170
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	374	374	< 0.005	0.06	0.19	391
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	53.5	53.5	< 0.005	< 0.005	0.04	54.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.9	26.9	< 0.005	< 0.005	0.01	28.1
Hauling	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	61.9	61.9	< 0.005	0.01	0.03	64.8

3.17. Building Construction (2036) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	117	117	< 0.005	0.02	0.11	122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	117	117	< 0.005	0.02	< 0.005	123
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.71	0.60	5.10	9.03	0.02	0.12	—	0.12	0.11	—	0.11	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	83.8	83.8	< 0.005	0.01	0.03	87.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.93	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.9	13.9	< 0.005	< 0.005	0.01	14.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.08	1.98	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	488	488	< 0.005	< 0.005	0.74	490
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	221	221	< 0.005	0.03	0.17	231
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	515	515	< 0.005	0.08	0.53	540
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.33	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	435	435	0.01	< 0.005	0.02	436
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	222	222	< 0.005	0.03	< 0.005	232
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	515	515	< 0.005	0.08	0.01	540
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.07	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	320	320	< 0.005	0.01	0.23	325
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	159	159	< 0.005	0.02	0.05	166
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	369	369	< 0.005	0.06	0.17	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.19	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	53.0	53.0	< 0.005	< 0.005	0.04	53.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.3	26.3	< 0.005	< 0.005	0.01	27.5

Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	61.0	61.0	< 0.005	0.01	0.03	64.0
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3.18. Building Construction (2036) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	117	117	< 0.005	0.02	0.11	122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.12	12.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	117	117	< 0.005	0.02	< 0.005	123
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.60	5.10	9.03	0.02	0.12	—	0.12	0.11	—	0.11	—	1,717	1,717	0.07	0.01	—	1,723
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	83.8	83.8	< 0.005	0.01	0.03	87.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.13	0.11	0.93	1.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	284	284	0.01	< 0.005	—	285
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.9	13.9	< 0.005	< 0.005	0.01	14.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.08	1.98	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	488	488	< 0.005	< 0.005	0.74	490
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	221	221	< 0.005	0.03	0.17	231
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	515	515	< 0.005	0.08	0.53	540
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.09	1.33	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	435	435	0.01	< 0.005	0.02	436
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	222	222	< 0.005	0.03	< 0.005	232
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	515	515	< 0.005	0.08	0.01	540
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.07	1.07	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	320	320	< 0.005	0.01	0.23	325
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	159	159	< 0.005	0.02	0.05	166
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	369	369	< 0.005	0.06	0.17	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.19	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	53.0	53.0	< 0.005	< 0.005	0.04	53.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	26.3	26.3	< 0.005	< 0.005	0.01	27.5
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	61.0	61.0	< 0.005	0.01	0.03	64.0

3.19. Building Construction (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	115	115	< 0.005	0.02	0.09	121
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	116	116	< 0.005	0.02	< 0.005	122
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.67	0.56	4.76	8.51	0.02	0.11	—	0.11	0.10	—	0.10	—	1,632	1,632	0.07	0.01	—	1,638
Onsite truck	0.01	0.01	0.16	0.09	< 0.005	< 0.005	38.7	38.7	< 0.005	3.86	3.86	—	78.8	78.8	< 0.005	0.01	0.03	82.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.12	0.10	0.87	1.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	270	270	0.01	< 0.005	—	271
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.06	7.06	< 0.005	0.70	0.70	—	13.0	13.0	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.08	1.87	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	483	483	< 0.005	< 0.005	0.64	485
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	0.14	225
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.47	533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.25	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	430	430	< 0.005	< 0.005	0.02	431
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	< 0.005	226
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.01	533
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.96	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	301	301	< 0.005	< 0.005	0.19	302
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	147	147	< 0.005	0.02	0.04	154
Hauling	0.01	0.01	0.39	0.11	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	—	346	346	< 0.005	0.06	0.14	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.06	0.06	0.00	0.02	0.02	—	49.9	49.9	< 0.005	< 0.005	0.03	50.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.4	24.4	< 0.005	< 0.005	0.01	25.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	57.3	57.3	< 0.005	0.01	0.02	60.1

3.20. Building Construction (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	115	115	< 0.005	0.02	0.09	121
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.16	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	116	116	< 0.005	0.02	< 0.005	122
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.76	8.51	0.02	0.11	—	0.11	0.10	—	0.10	—	1,632	1,632	0.07	0.01	—	1,638
Onsite truck	0.01	0.01	0.16	0.09	< 0.005	< 0.005	38.7	38.7	< 0.005	3.86	3.86	—	78.8	78.8	< 0.005	0.01	0.03	82.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.87	1.55	< 0.005	0.02	—	0.02	0.02	—	0.02	—	270	270	0.01	< 0.005	—	271
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.06	7.06	< 0.005	0.70	0.70	—	13.0	13.0	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.08	1.87	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	483	483	< 0.005	< 0.005	0.64	485
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	0.14	225
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.47	533

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.25	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	430	430	< 0.005	< 0.005	0.02	431
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	< 0.005	226
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.01	533
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.96	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	301	301	< 0.005	< 0.005	0.19	302
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	147	147	< 0.005	0.02	0.04	154
Hauling	0.01	0.01	0.39	0.11	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	—	346	346	< 0.005	0.06	0.14	363
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.06	0.06	0.00	0.02	0.02	—	49.9	49.9	< 0.005	< 0.005	0.03	50.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.4	24.4	< 0.005	< 0.005	0.01	25.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	57.3	57.3	< 0.005	0.01	0.02	60.1

3.21. Paving (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	5.50	9.77	0.01	0.12	—	0.12	0.11	—	0.11	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	116	116	< 0.005	0.02	< 0.005	122
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.18	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.3	50.3	< 0.005	< 0.005	—	50.4
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.89	1.89	< 0.005	0.19	0.19	—	3.85	3.85	< 0.005	< 0.005	< 0.005	4.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	< 0.005	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.32	8.32	< 0.005	< 0.005	—	8.35
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.25	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	430	430	< 0.005	< 0.005	0.02	431
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	< 0.005	226
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.01	533
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	14.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.50
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	17.7

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.24
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.93

3.22. Paving (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	5.50	9.77	0.01	0.12	—	0.12	0.11	—	0.11	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	116	116	< 0.005	0.02	< 0.005	122
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.3	50.3	< 0.005	< 0.005	—	50.4
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.89	1.89	< 0.005	0.19	0.19	—	3.85	3.85	< 0.005	< 0.005	< 0.005	4.04
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	< 0.005	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.32	8.32	< 0.005	< 0.005	—	8.35
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.34	0.34	< 0.005	0.03	0.03	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.25	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	430	430	< 0.005	< 0.005	0.02	431
Vendor	0.01	0.01	0.23	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	216	216	< 0.005	0.03	< 0.005	226
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	508	508	< 0.005	0.08	0.01	533
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.7	14.7	< 0.005	< 0.005	0.01	14.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.19	7.19	< 0.005	< 0.005	< 0.005	7.50
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.01	17.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.44	2.44	< 0.005	< 0.005	< 0.005	2.44
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.24
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.80	2.80	< 0.005	< 0.005	< 0.005	2.93

3.23. Paving (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	114	114	< 0.005	0.02	0.08	120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	115	115	< 0.005	0.02	< 0.005	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.36	3.84	6.97	0.01	0.08	—	0.08	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	81.8	81.8	< 0.005	0.01	0.03	85.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.70	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.5	13.5	< 0.005	< 0.005	< 0.005	14.2
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.07	1.79	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	481	481	< 0.005	< 0.005	0.56	483
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.11	220
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	502	502	< 0.005	0.08	0.41	526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.08	1.21	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	429	429	< 0.005	< 0.005	0.01	430
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	221
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	503	503	< 0.005	0.08	0.01	526
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.96	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	315	315	< 0.005	< 0.005	0.17	316
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	151	151	< 0.005	0.02	0.03	158
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	359	359	< 0.005	0.06	0.13	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	52.1	52.1	< 0.005	< 0.005	0.03	52.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.01	26.1
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	59.4	59.4	< 0.005	0.01	0.02	62.2

3.24. Paving (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	114	114	< 0.005	0.02	0.08	120
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.38	9.76	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	115	115	< 0.005	0.02	< 0.005	120
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.36	3.84	6.97	0.01	0.08	—	0.08	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	81.8	81.8	< 0.005	0.01	0.03	85.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.70	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.5	13.5	< 0.005	< 0.005	< 0.005	14.2
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.07	1.79	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	481	481	< 0.005	< 0.005	0.56	483
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.11	220
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	502	502	< 0.005	0.08	0.41	526
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.08	1.21	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	429	429	< 0.005	< 0.005	0.01	430
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	221
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	503	503	< 0.005	0.08	0.01	526
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	0.96	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	315	315	< 0.005	< 0.005	0.17	316
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	151	151	< 0.005	0.02	0.03	158
Hauling	0.01	0.01	0.41	0.11	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	359	359	< 0.005	0.06	0.13	375
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.18	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	52.1	52.1	< 0.005	< 0.005	0.03	52.3
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.01	26.1
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	59.4	59.4	< 0.005	0.01	0.02	62.2

3.25. Paving (2039) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	0.07	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	114	114	< 0.005	0.02	< 0.005	119
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.79	6.97	0.01	0.08	—	0.08	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	81.2	81.2	< 0.005	0.01	0.02	85.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.69	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.70	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	477	477	< 0.005	< 0.005	0.48	478
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	207	207	< 0.005	0.03	0.09	216
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	497	497	< 0.005	0.08	0.36	521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.15	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	425	425	< 0.005	< 0.005	0.01	426
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	207	207	< 0.005	0.03	< 0.005	217
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	498	498	< 0.005	0.08	0.01	521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.92	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	312	312	< 0.005	< 0.005	0.15	313
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	148	148	< 0.005	0.02	0.03	155
Hauling	0.01	0.01	0.41	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	355	355	< 0.005	0.06	0.11	372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.7	51.7	< 0.005	< 0.005	0.02	51.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.5	24.5	< 0.005	< 0.005	< 0.005	25.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.8	58.8	< 0.005	0.01	0.02	61.6

3.26. Paving (2039) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	0.07	119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	114	114	< 0.005	0.02	< 0.005	119
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.35	3.79	6.97	0.01	0.08	—	0.08	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	81.2	81.2	< 0.005	0.01	0.02	85.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.69	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.1
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.70	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	477	477	< 0.005	< 0.005	0.48	478
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	207	207	< 0.005	0.03	0.09	216
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	497	497	< 0.005	0.08	0.36	521
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.07	1.15	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	425	425	< 0.005	< 0.005	0.01	426
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	207	207	< 0.005	0.03	< 0.005	217
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	498	498	< 0.005	0.08	0.01	521
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.92	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	312	312	< 0.005	< 0.005	0.15	313
Vendor	0.01	0.01	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	148	148	< 0.005	0.02	0.03	155
Hauling	0.01	0.01	0.41	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	355	355	< 0.005	0.06	0.11	372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.7	51.7	< 0.005	< 0.005	0.02	51.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.5	24.5	< 0.005	< 0.005	< 0.005	25.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.8	58.8	< 0.005	0.01	0.02	61.6

3.27. Paving (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	0.06	118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	< 0.005	119
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.35	3.78	6.98	0.01	0.08	—	0.08	0.07	—	0.07	—	1,082	1,082	0.04	0.01	—	1,086
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	80.8	80.8	< 0.005	0.01	0.02	84.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.69	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	180
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.0
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	1.63	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	473	473	< 0.005	< 0.005	0.41	475
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	203	203	< 0.005	0.03	0.07	213
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	493	493	< 0.005	0.08	0.32	517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.09	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	422	422	< 0.005	< 0.005	0.01	423
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	204	204	< 0.005	0.03	< 0.005	213
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	494	494	< 0.005	0.08	0.01	517
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.88	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	311	311	< 0.005	< 0.005	0.13	311
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	146	146	< 0.005	0.02	0.02	152
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	354	354	< 0.005	0.06	0.10	370
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.4	51.4	< 0.005	< 0.005	0.02	51.5
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.1	24.1	< 0.005	< 0.005	< 0.005	25.2
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.5	58.5	< 0.005	0.01	0.02	61.3

3.28. Paving (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.23	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	0.06	118
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	< 0.005	119
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.35	3.78	6.98	0.01	0.08	—	0.08	0.07	—	0.07	—	1,082	1,082	0.04	0.01	—	1,086
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	80.8	80.8	< 0.005	0.01	0.02	84.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.69	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	180
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.4	13.4	< 0.005	< 0.005	< 0.005	14.0
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.07	1.63	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	473	473	< 0.005	< 0.005	0.41	475
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	203	203	< 0.005	0.03	0.07	213
Hauling	0.02	0.01	0.54	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	493	493	< 0.005	0.08	0.32	517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.07	1.09	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	422	422	< 0.005	< 0.005	0.01	423
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	204	204	< 0.005	0.03	< 0.005	213
Hauling	0.01	0.01	0.57	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	494	494	< 0.005	0.08	0.01	517
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.88	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	311	311	< 0.005	< 0.005	0.13	311
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	146	146	< 0.005	0.02	0.02	152
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	354	354	< 0.005	0.06	0.10	370
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.4	51.4	< 0.005	< 0.005	0.02	51.5
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.1	24.1	< 0.005	< 0.005	< 0.005	25.2
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.5	58.5	< 0.005	0.01	0.02	61.3

3.29. Paving (2041) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	5.20	9.74	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	0.06	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	5.20	9.74	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	< 0.005	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.72	6.96	0.01	0.07	—	0.07	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	80.2	80.2	< 0.005	0.01	0.02	84.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.68	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.3	13.3	< 0.005	< 0.005	< 0.005	13.9
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.05	1.58	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	470	470	< 0.005	< 0.005	0.35	471
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	0.05	209
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	490	490	< 0.005	0.08	0.28	514
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.07	1.05	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	419	419	< 0.005	< 0.005	0.01	420
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	201	201	< 0.005	0.03	< 0.005	209
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	491	491	< 0.005	0.08	0.01	514
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.84	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	308	308	< 0.005	< 0.005	0.11	308
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	143	143	< 0.005	0.02	0.02	149
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	350	350	< 0.005	0.06	0.09	367
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.9	50.9	< 0.005	< 0.005	0.02	51.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.7
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.0	58.0	< 0.005	0.01	0.01	60.7

3.30. Paving (2041) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	5.20	9.74	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	0.06	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	0.48	5.20	9.74	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	113	113	< 0.005	0.02	< 0.005	118
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.72	6.96	0.01	0.07	—	0.07	0.07	—	0.07	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	80.2	80.2	< 0.005	0.01	0.02	84.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.68	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.3	13.3	< 0.005	< 0.005	< 0.005	13.9
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.05	1.58	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	470	470	< 0.005	< 0.005	0.35	471
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	200	200	< 0.005	0.03	0.05	209
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	490	490	< 0.005	0.08	0.28	514
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.07	1.05	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	419	419	< 0.005	< 0.005	0.01	420
Vendor	0.01	0.01	0.22	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	201	201	< 0.005	0.03	< 0.005	209
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	491	491	< 0.005	0.08	0.01	514
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.84	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	308	308	< 0.005	< 0.005	0.11	308
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	143	143	< 0.005	0.02	0.02	149
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	350	350	< 0.005	0.06	0.09	367
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.9	50.9	< 0.005	< 0.005	0.02	51.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.7
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	58.0	58.0	< 0.005	0.01	0.01	60.7

3.31. Paving (2042) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.16	9.73	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	0.05	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.16	9.73	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.34	3.68	6.95	0.01	0.07	—	0.07	0.06	—	0.06	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.8	79.8	< 0.005	0.01	0.01	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.67	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.05	1.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	467	467	< 0.005	< 0.005	0.30	468
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	197	197	< 0.005	0.03	0.04	206
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	488	488	< 0.005	0.08	0.24	511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.07	1.01	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	416	416	< 0.005	< 0.005	0.01	417
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	198	198	< 0.005	0.03	< 0.005	206
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	488	488	< 0.005	0.08	0.01	511
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.81	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	306	306	< 0.005	< 0.005	0.09	306
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	141	141	< 0.005	0.02	0.01	147
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	348	348	< 0.005	0.06	0.07	365
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.6	50.6	< 0.005	< 0.005	0.02	50.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.4	23.4	< 0.005	< 0.005	< 0.005	24.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.7	57.7	< 0.005	0.01	0.01	60.4

3.32. Paving (2042) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.16	9.73	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	0.05	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.16	9.73	0.01	0.10	—	0.10	0.09	—	0.09	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.34	3.68	6.95	0.01	0.07	—	0.07	0.06	—	0.06	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.8	79.8	< 0.005	0.01	0.01	83.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.67	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.05	1.51	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	467	467	< 0.005	< 0.005	0.30	468
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	197	197	< 0.005	0.03	0.04	206
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	488	488	< 0.005	0.08	0.24	511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.07	1.01	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	416	416	< 0.005	< 0.005	0.01	417
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	198	198	< 0.005	0.03	< 0.005	206
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	488	488	< 0.005	0.08	0.01	511
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.81	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	306	306	< 0.005	< 0.005	0.09	306
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	141	141	< 0.005	0.02	0.01	147
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	348	348	< 0.005	0.06	0.07	365
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.6	50.6	< 0.005	< 0.005	0.02	50.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.4	23.4	< 0.005	< 0.005	< 0.005	24.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.7	57.7	< 0.005	0.01	0.01	60.4

3.33. Paving (2043) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.33	3.66	6.95	0.01	0.06	—	0.06	0.06	—	0.06	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.6	79.6	< 0.005	0.01	0.01	83.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.67	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	1.47	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	< 0.005	< 0.005	0.25	466
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	195	195	< 0.005	0.03	0.03	203
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	485	485	< 0.005	0.08	0.21	509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	414	414	< 0.005	< 0.005	0.01	415
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	195	195	< 0.005	0.03	< 0.005	204
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	486	486	< 0.005	0.08	0.01	509
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.78	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	304	304	< 0.005	< 0.005	0.08	305
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	139	139	< 0.005	0.02	0.01	145
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	347	347	< 0.005	0.06	0.06	364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.3	50.3	< 0.005	< 0.005	0.01	50.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.1	23.1	< 0.005	< 0.005	< 0.005	24.1
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.4	57.4	< 0.005	0.01	0.01	60.2

3.34. Paving (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	117
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	5.12	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	112	112	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.33	3.66	6.95	0.01	0.06	—	0.06	0.06	—	0.06	—	1,079	1,079	0.04	0.01	—	1,083
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.6	79.6	< 0.005	0.01	0.01	83.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.67	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.2	13.2	< 0.005	< 0.005	< 0.005	13.8
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	1.47	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	464	464	< 0.005	< 0.005	0.25	466
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	195	195	< 0.005	0.03	0.03	203
Hauling	0.02	0.01	0.53	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	485	485	< 0.005	0.08	0.21	509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.97	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	414	414	< 0.005	< 0.005	0.01	415
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	195	195	< 0.005	0.03	< 0.005	204
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	486	486	< 0.005	0.08	0.01	509
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.78	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	304	304	< 0.005	< 0.005	0.08	305
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	139	139	< 0.005	0.02	0.01	145
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	347	347	< 0.005	0.06	0.06	364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	50.3	50.3	< 0.005	< 0.005	0.01	50.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.1	23.1	< 0.005	< 0.005	< 0.005	24.1
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.4	57.4	< 0.005	0.01	0.01	60.2

3.35. Paving (2044) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.16	1.72	3.27	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.02	< 0.005	—	510
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.05	< 0.005	< 0.005	19.1	19.1	< 0.005	1.91	1.91	—	37.4	37.4	< 0.005	0.01	0.01	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.31	0.60	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	84.2	84.2	< 0.005	< 0.005	—	84.5
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.49	3.49	< 0.005	0.35	0.35	—	6.19	6.19	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.43	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	462	462	< 0.005	< 0.005	0.22	463
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	0.02	201
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	0.19	507
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	412	412	< 0.005	< 0.005	0.01	413
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	< 0.005	202
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	< 0.005	508
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.36	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	0.03	143
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	64.9	64.9	< 0.005	0.01	< 0.005	67.8
Hauling	0.01	< 0.005	0.19	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	163	163	< 0.005	0.03	0.03	171
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.6	23.6	< 0.005	< 0.005	0.01	23.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	< 0.005	11.2
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.0	27.0	< 0.005	< 0.005	< 0.005	28.3

3.36. Paving (2044) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.16	1.72	3.27	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.02	< 0.005	—	510
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.08	0.05	< 0.005	< 0.005	19.1	19.1	< 0.005	1.91	1.91	—	37.4	37.4	< 0.005	0.01	0.01	39.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.31	0.60	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	84.2	84.2	< 0.005	< 0.005	—	84.5
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	3.49	3.49	< 0.005	0.35	0.35	—	6.19	6.19	< 0.005	< 0.005	< 0.005	6.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.43	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	462	462	< 0.005	< 0.005	0.22	463
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	0.02	201
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	0.19	507
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	412	412	< 0.005	< 0.005	0.01	413
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	< 0.005	202
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	< 0.005	508
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.36	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	143	143	< 0.005	< 0.005	0.03	143
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	64.9	64.9	< 0.005	0.01	< 0.005	67.8
Hauling	0.01	< 0.005	0.19	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	163	163	< 0.005	0.03	0.03	171
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.07	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	23.6	23.6	< 0.005	< 0.005	0.01	23.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	< 0.005	11.2
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.0	27.0	< 0.005	< 0.005	< 0.005	28.3

3.37. Architectural Coating (2044) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.7	50.7	< 0.005	< 0.005	—	50.9
Architectural Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.05	< 0.005	< 0.005	21.6	21.6	< 0.005	2.15	2.15	—	42.2	42.2	< 0.005	0.01	0.01	44.2

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.39	8.39	< 0.005	< 0.005	—	8.42
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	3.93	3.93	< 0.005	0.39	0.39	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.32
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.43	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	462	462	< 0.005	< 0.005	0.22	463
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	0.02	201
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	0.19	507
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	412	412	< 0.005	< 0.005	0.01	413
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	< 0.005	202
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	< 0.005	508
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.41	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	161	161	< 0.005	< 0.005	0.04	161
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	73.3	73.3	< 0.005	0.01	< 0.005	76.5
Hauling	0.01	0.01	0.21	0.06	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	184	184	< 0.005	0.03	0.03	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.01	26.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	< 0.005	12.7
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.4	30.4	< 0.005	< 0.005	0.01	31.9

3.38. Architectural Coating (2044) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.04	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.7	50.7	< 0.005	< 0.005	—	50.9

Architect Coatings	6.83	6.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.09	0.05	< 0.005	< 0.005	21.6	21.6	< 0.005	2.15	2.15	—	42.2	42.2	< 0.005	0.01	0.01	44.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.39	8.39	< 0.005	< 0.005	—	8.42
Architectural Coatings	1.25	1.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	3.93	3.93	< 0.005	0.39	0.39	—	6.98	6.98	< 0.005	< 0.005	< 0.005	7.32
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.43	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	462	462	< 0.005	< 0.005	0.22	463
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	0.02	201
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	0.19	507
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	412	412	< 0.005	< 0.005	0.01	413
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	193	193	< 0.005	0.03	< 0.005	202
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	0.01	0.05	0.06	—	484	484	< 0.005	0.08	< 0.005	508
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.41	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	161	161	< 0.005	< 0.005	0.04	161
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	73.3	73.3	< 0.005	0.01	< 0.005	76.5
Hauling	0.01	0.01	0.21	0.06	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	184	184	< 0.005	0.03	0.03	193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	< 0.005	< 0.005	0.07	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.01	26.7
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	< 0.005	12.7
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	30.4	30.4	< 0.005	< 0.005	0.01	31.9

3.39. Architectural Coating (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.2	79.2	< 0.005	0.01	0.01	83.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.41	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	460	460	< 0.005	< 0.005	0.18	461
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	191	191	< 0.005	0.03	0.02	200
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	482	482	< 0.005	0.08	0.16	506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	410	410	< 0.005	< 0.005	< 0.005	411
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	191	191	< 0.005	0.03	< 0.005	200

Hauling	0.01	0.01	0.55	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	483	483	< 0.005	0.08	< 0.005	506
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.75	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	301	301	< 0.005	< 0.005	0.06	302
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	137	137	< 0.005	0.02	0.01	143
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	345	345	< 0.005	0.06	0.05	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.9	49.9	< 0.005	< 0.005	0.01	50.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.6	22.6	< 0.005	< 0.005	< 0.005	23.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.1	57.1	< 0.005	0.01	0.01	59.8

3.40. Architectural Coating (2045) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	117
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.2	79.2	< 0.005	0.01	0.01	83.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.41	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	460	460	< 0.005	< 0.005	0.18	461

Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	191	191	< 0.005	0.03	0.02	200
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	482	482	< 0.005	0.08	0.16	506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.95	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	410	410	< 0.005	< 0.005	< 0.005	411
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	191	191	< 0.005	0.03	< 0.005	200
Hauling	0.01	0.01	0.55	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	483	483	< 0.005	0.08	< 0.005	506
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.75	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	301	301	< 0.005	< 0.005	0.06	302
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	137	137	< 0.005	0.02	0.01	143
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	345	345	< 0.005	0.06	0.05	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.9	49.9	< 0.005	< 0.005	0.01	50.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.6	22.6	< 0.005	< 0.005	< 0.005	23.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.1	57.1	< 0.005	0.01	0.01	59.8

3.41. Architectural Coating (2046) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.1	79.1	< 0.005	0.01	0.01	82.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8

Architectural Coating	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.40	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	458	458	< 0.005	< 0.005	0.16	459
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	189	189	< 0.005	0.03	0.01	198
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	409	409	< 0.005	< 0.005	< 0.005	410
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	190	190	< 0.005	0.03	< 0.005	198
Hauling	0.01	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	482	482	< 0.005	0.08	< 0.005	505
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.75	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	300	300	< 0.005	< 0.005	0.05	301
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	142
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	344	344	< 0.005	0.06	0.04	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.7	49.7	< 0.005	< 0.005	0.01	49.8
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.4	22.4	< 0.005	< 0.005	< 0.005	23.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.0	57.0	< 0.005	0.01	0.01	59.7

3.42. Architectural Coating (2046) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.1	79.1	< 0.005	0.01	0.01	82.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.05	1.40	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	458	458	< 0.005	< 0.005	0.16	459
Vendor	0.01	0.01	0.20	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	189	189	< 0.005	0.03	0.01	198
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	409	409	< 0.005	< 0.005	< 0.005	410
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	190	190	< 0.005	0.03	< 0.005	198
Hauling	0.01	0.01	0.55	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	482	482	< 0.005	0.08	< 0.005	505
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.75	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	300	300	< 0.005	< 0.005	0.05	301
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	142
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	344	344	< 0.005	0.06	0.04	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.7	49.7	< 0.005	< 0.005	0.01	49.8

Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.4	22.4	< 0.005	< 0.005	< 0.005	23.4
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	57.0	57.0	< 0.005	0.01	0.01	59.7

3.43. Architectural Coating (2047) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.0	79.0	< 0.005	0.01	0.01	82.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	457	457	< 0.005	< 0.005	0.13	458
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	188	188	< 0.005	0.03	0.01	197
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	0.13	504
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	407	407	< 0.005	< 0.005	< 0.005	408
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	188	188	< 0.005	0.03	< 0.005	197
Hauling	0.01	0.01	0.55	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	< 0.005	504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	299	299	< 0.005	< 0.005	0.04	300

Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	141
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	343	343	< 0.005	0.06	0.04	360
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.5	49.5	< 0.005	< 0.005	0.01	49.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.3	22.3	< 0.005	< 0.005	< 0.005	23.3
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.9	56.9	< 0.005	0.01	0.01	59.6

3.44. Architectural Coating (2047) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.03	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134

Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	79.0	79.0	< 0.005	0.01	0.01	82.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	457	457	< 0.005	< 0.005	0.13	458
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	188	188	< 0.005	0.03	0.01	197
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	0.13	504

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	407	407	< 0.005	< 0.005	< 0.005	408
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	188	188	< 0.005	0.03	< 0.005	197
Hauling	0.01	0.01	0.55	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	< 0.005	504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	299	299	< 0.005	< 0.005	0.04	300
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	135	135	< 0.005	0.02	< 0.005	141
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	343	343	< 0.005	0.06	0.04	360
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.5	49.5	< 0.005	< 0.005	0.01	49.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.3	22.3	< 0.005	< 0.005	< 0.005	23.3
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.9	56.9	< 0.005	0.01	0.01	59.6

3.45. Architectural Coating (2048) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architect ural Coating s	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.6	95.6	< 0.005	< 0.005	—	96.0
Architect ural Coating s	12.9	12.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	79.1	79.1	< 0.005	0.01	0.01	83.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.9
Architect ural Coating s	2.35	2.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	456	456	< 0.005	< 0.005	0.11	457
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	187	187	< 0.005	0.03	0.01	196
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.08	0.11	503
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	406	406	< 0.005	< 0.005	< 0.005	407
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	187	187	< 0.005	0.03	< 0.005	196
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	< 0.005	504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	299	299	< 0.005	< 0.005	0.03	300
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	134	134	< 0.005	0.02	< 0.005	140
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	344	344	< 0.005	0.06	0.04	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.5	49.5	< 0.005	< 0.005	0.01	49.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	23.2
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.9	56.9	< 0.005	0.01	0.01	59.7

3.46. Architectural Coating (2048) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	116
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.6	95.6	< 0.005	< 0.005	—	96.0
Architectural Coatings	12.9	12.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.7	40.7	< 0.005	4.06	4.06	—	79.1	79.1	< 0.005	0.01	0.01	83.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.9

Architect Coatings	2.35	2.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	456	456	< 0.005	< 0.005	0.11	457
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	187	187	< 0.005	0.03	0.01	196
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.08	0.11	503
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	406	406	< 0.005	< 0.005	< 0.005	407
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	187	187	< 0.005	0.03	< 0.005	196
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	481	481	< 0.005	0.08	< 0.005	504
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	299	299	< 0.005	< 0.005	0.03	300
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	134	134	< 0.005	0.02	< 0.005	140
Hauling	0.01	0.01	0.40	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	344	344	< 0.005	0.06	0.04	361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.5	49.5	< 0.005	< 0.005	0.01	49.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.2	22.2	< 0.005	< 0.005	< 0.005	23.2
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.9	56.9	< 0.005	0.01	0.01	59.7

3.47. Architectural Coating (2049) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7
Architectural Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	78.9	78.9	< 0.005	0.01	0.01	82.7

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	455	455	< 0.005	< 0.005	0.10	456
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	0.01	195
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	479	479	< 0.005	0.07	0.10	501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	406	406	< 0.005	< 0.005	< 0.005	406
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	< 0.005	195
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.08	< 0.005	503
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	298	298	< 0.005	< 0.005	0.03	298
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	133	133	< 0.005	0.02	< 0.005	139
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	343	343	< 0.005	0.06	0.03	359
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.3	49.3	< 0.005	< 0.005	< 0.005	49.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	< 0.005	23.0
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.7	56.7	< 0.005	0.01	0.01	59.5

3.48. Architectural Coating (2049) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.14	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.53	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	95.4	95.4	< 0.005	< 0.005	—	95.7

Architect Coatings	12.8	12.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.6	40.6	< 0.005	4.05	4.05	—	78.9	78.9	< 0.005	0.01	0.01	82.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.8	15.8	< 0.005	< 0.005	—	15.8
Architectural Coatings	2.34	2.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.40	7.40	< 0.005	0.74	0.74	—	13.1	13.1	< 0.005	< 0.005	< 0.005	13.7
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.38	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	455	455	< 0.005	< 0.005	0.10	456
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	0.01	195
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	479	479	< 0.005	0.07	0.10	501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	406	406	< 0.005	< 0.005	< 0.005	406
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	< 0.005	195
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.08	< 0.005	503
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.74	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	298	298	< 0.005	< 0.005	0.03	298
Vendor	0.01	0.01	0.15	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	133	133	< 0.005	0.02	< 0.005	139
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	343	343	< 0.005	0.06	0.03	359
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	49.3	49.3	< 0.005	< 0.005	< 0.005	49.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	< 0.005	23.0
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	56.7	56.7	< 0.005	0.01	0.01	59.5

3.49. Architectural Coating (2050) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.52	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Architectural Coatings	12.7	12.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.0	40.0	< 0.005	3.99	3.99	—	77.8	77.8	< 0.005	0.01	0.01	81.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Architectural Coatings	2.31	2.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.30	7.30	< 0.005	0.73	0.73	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	1.36	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	454	454	< 0.005	< 0.005	0.08	455
Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	185	185	< 0.005	0.03	< 0.005	194
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	479	479	< 0.005	0.07	0.09	501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	405	405	< 0.005	< 0.005	< 0.005	406
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	< 0.005	194

Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.07	< 0.005	501
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.71	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	293	293	< 0.005	< 0.005	0.03	294
Vendor	0.01	0.01	0.14	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	131	131	< 0.005	0.02	< 0.005	137
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	338	338	< 0.005	0.05	0.03	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	48.6	48.6	< 0.005	< 0.005	< 0.005	48.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.6	21.6	< 0.005	< 0.005	< 0.005	22.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	55.9	55.9	< 0.005	0.01	< 0.005	58.5

3.50. Architectural Coating (2050) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.22	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	110	110	< 0.005	0.02	0.02	115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	18.0	18.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.24	0.15	< 0.005	< 0.005	58.9	58.9	< 0.005	5.88	5.88	—	111	111	< 0.005	0.02	< 0.005	116
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.52	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	94.1	94.1	< 0.005	< 0.005	—	94.4
Architectural Coatings	12.7	12.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.01	0.17	0.10	< 0.005	< 0.005	40.0	40.0	< 0.005	3.99	3.99	—	77.8	77.8	< 0.005	0.01	0.01	81.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.6
Architectural Coatings	2.31	2.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	7.30	7.30	< 0.005	0.73	0.73	—	12.9	12.9	< 0.005	< 0.005	< 0.005	13.5
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	1.36	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	454	454	< 0.005	< 0.005	0.08	455

Vendor	0.01	0.01	0.19	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	185	185	< 0.005	0.03	< 0.005	194
Hauling	0.02	0.01	0.52	0.16	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	479	479	< 0.005	0.07	0.09	501
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.91	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	405	405	< 0.005	< 0.005	< 0.005	406
Vendor	0.01	0.01	0.21	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	186	186	< 0.005	0.03	< 0.005	194
Hauling	0.01	0.01	0.56	0.17	< 0.005	0.01	0.19	0.19	< 0.005	0.05	0.06	—	480	480	< 0.005	0.07	< 0.005	501
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.71	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	293	293	< 0.005	< 0.005	0.03	294
Vendor	0.01	0.01	0.14	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	131	131	< 0.005	0.02	< 0.005	137
Hauling	0.01	0.01	0.39	0.12	< 0.005	0.01	0.13	0.14	< 0.005	0.04	0.04	—	338	338	< 0.005	0.05	0.03	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	48.6	48.6	< 0.005	< 0.005	< 0.005	48.7
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	21.6	21.6	< 0.005	< 0.005	< 0.005	22.6
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	55.9	55.9	< 0.005	0.01	< 0.005	58.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	17.8	16.7	11.7	144	0.38	0.14	16.7	16.9	0.13	4.35	4.48	—	38,928	38,928	1.11	1.71	6.21	39,472
Elementary School	1.54	1.47	0.86	9.05	0.02	0.01	0.93	0.94	0.01	0.24	0.25	—	2,220	2,220	0.08	0.11	0.35	2,257
City Park	0.12	0.12	0.07	0.73	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	179	179	0.01	0.01	0.03	182
Medical Office Building	43.7	41.8	24.5	257	0.62	0.24	26.6	26.8	0.22	6.90	7.12	—	63,161	63,161	2.32	3.23	9.85	64,190
Apartments Mid Rise	25.6	24.1	16.8	207	0.55	0.20	24.1	24.3	0.19	6.27	6.46	—	56,099	56,099	1.60	2.47	8.95	56,883
Single Family Housing	10.1	9.54	6.66	82.2	0.22	0.08	9.57	9.65	0.08	2.48	2.56	—	22,235	22,235	0.63	0.98	3.55	22,546
General Office Building	9.14	8.74	5.13	53.9	0.13	0.05	5.56	5.61	0.05	1.44	1.49	—	13,212	13,212	0.49	0.67	2.06	13,428
Health Club	7.46	7.13	4.18	43.9	0.11	0.04	4.53	4.57	0.04	1.18	1.22	—	10,775	10,775	0.40	0.55	1.68	10,951
Hotel	1.75	1.68	0.98	10.3	0.02	0.01	1.07	1.08	0.01	0.28	0.29	—	2,534	2,534	0.09	0.13	0.40	2,576
Total	117	111	70.9	809	2.05	0.77	89.2	89.9	0.72	23.2	23.9	—	209,344	209,344	6.73	9.86	33.1	212,483
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	16.8	15.8	12.7	115	0.35	0.14	16.7	16.9	0.13	4.35	4.48	—	35,549	35,549	1.18	1.77	0.16	36,107
Elementary School	1.45	1.39	0.94	7.60	0.02	0.01	0.93	0.94	0.01	0.24	0.25	—	2,033	2,033	0.09	0.12	0.01	2,070
City Park	0.12	0.11	0.08	0.61	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	164	164	0.01	0.01	< 0.005	167

Medical Office Building	41.4	39.4	26.6	216	0.57	0.24	26.6	26.8	0.22	6.90	7.12	—	57,823	57,823	2.52	3.34	0.26	58,883
Apartments Mid Rise	24.3	22.7	18.3	165	0.50	0.20	24.1	24.3	0.19	6.27	6.46	—	51,229	51,229	1.70	2.55	0.23	52,033
Single Family Housing	9.62	9.01	7.24	65.4	0.20	0.08	9.57	9.65	0.08	2.48	2.56	—	20,305	20,305	0.67	1.01	0.09	20,624
General Office Building	8.66	8.25	5.57	45.2	0.12	0.05	5.56	5.61	0.05	1.44	1.49	—	12,096	12,096	0.53	0.70	0.05	12,317
Health Club	7.06	6.73	4.54	36.9	0.10	0.04	4.53	4.57	0.04	1.18	1.22	—	9,864	9,864	0.43	0.57	0.04	10,045
Hotel	1.66	1.58	1.07	8.67	0.02	0.01	1.07	1.08	0.01	0.28	0.29	—	2,320	2,320	0.10	0.13	0.01	2,363
Total	111	105	77.0	660	1.88	0.77	89.2	89.9	0.73	23.2	23.9	—	191,383	191,383	7.23	10.2	0.86	194,608
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	3.06	2.86	2.33	22.4	0.07	0.03	3.03	3.06	0.02	0.79	0.81	—	6,014	6,014	0.20	0.30	0.44	6,108
Elementary School	0.19	0.18	0.12	1.06	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	245	245	0.01	0.01	0.02	250
City Park	0.01	0.01	0.01	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	14.5	14.5	< 0.005	< 0.005	< 0.005	14.8
Medical Office Building	5.70	5.43	3.69	31.9	0.08	0.03	3.65	3.69	0.03	0.95	0.98	—	7,421	7,421	0.32	0.42	0.53	7,556
Apartments Mid Rise	4.41	4.13	3.36	32.3	0.09	0.04	4.37	4.41	0.03	1.14	1.17	—	8,666	8,666	0.28	0.43	0.64	8,801
Single Family Housing	1.75	1.64	1.33	12.8	0.04	0.01	1.73	1.75	0.01	0.45	0.46	—	3,435	3,435	0.11	0.17	0.25	3,489
General Office Building	1.18	1.13	0.77	6.62	0.02	0.01	0.76	0.76	0.01	0.20	0.20	—	1,539	1,539	0.07	0.09	0.11	1,567

Health Club	1.10	1.05	0.71	6.17	0.02	0.01	0.71	0.71	0.01	0.18	0.19	—	1,435	1,435	0.06	0.08	0.10	1,462
Hotel	0.30	0.29	0.20	1.69	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	392	392	0.02	0.02	0.03	399
Total	17.7	16.7	12.5	115	0.32	0.13	14.6	14.7	0.12	3.79	3.91	—	29,163	29,163	1.07	1.52	2.13	29,646

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	16.6	15.6	10.9	135	0.36	0.13	15.6	15.8	0.12	4.06	4.19	—	36,372	36,372	1.04	1.60	5.80	36,881
Elementary School	1.44	1.37	0.81	8.46	0.02	0.01	0.87	0.88	0.01	0.23	0.23	—	2,075	2,075	0.08	0.11	0.32	2,108
City Park	0.12	0.11	0.06	0.68	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	167	167	0.01	0.01	0.03	170
Medical Office Building	40.8	39.0	22.9	241	0.58	0.22	24.8	25.0	0.21	6.45	6.66	—	59,014	59,014	2.17	3.01	9.20	59,976
Apartments Mid Rise	23.9	22.5	15.7	194	0.51	0.19	22.5	22.7	0.18	5.86	6.03	—	52,415	52,415	1.50	2.30	8.36	53,148
Single Family Housing	9.48	8.91	6.22	76.8	0.20	0.08	8.94	9.01	0.07	2.32	2.39	—	20,775	20,775	0.59	0.91	3.31	21,066
General Office Building	8.54	8.17	4.79	50.3	0.12	0.05	5.19	5.24	0.04	1.35	1.39	—	12,345	12,345	0.45	0.63	1.93	12,546
Health Club	6.97	6.66	3.91	41.0	0.10	0.04	4.23	4.27	0.04	1.10	1.14	—	10,068	10,068	0.37	0.51	1.57	10,232
Hotel	1.64	1.57	0.92	9.65	0.02	0.01	1.00	1.00	0.01	0.26	0.27	—	2,368	2,368	0.09	0.12	0.37	2,407

Total	110	104	66.2	756	1.92	0.72	83.3	84.0	0.68	21.6	22.3	—	195,599	195,599	6.29	9.21	30.9	198,532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	15.7	14.7	11.8	107	0.33	0.13	15.6	15.8	0.12	4.06	4.19	—	33,215	33,215	1.10	1.66	0.15	33,736
Elementary School	1.36	1.29	0.87	7.10	0.02	0.01	0.87	0.88	0.01	0.23	0.23	—	1,899	1,899	0.08	0.11	0.01	1,934
City Park	0.11	0.10	0.07	0.57	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	153	153	0.01	0.01	< 0.005	156
Medical Office Building	38.7	36.8	24.9	202	0.53	0.22	24.8	25.0	0.21	6.45	6.66	—	54,027	54,027	2.36	3.12	0.24	55,017
Apartments Mid Rise	22.7	21.3	17.1	154	0.47	0.19	22.5	22.7	0.18	5.86	6.03	—	47,865	47,865	1.59	2.39	0.22	48,616
Single Family Housing	8.99	8.42	6.77	61.1	0.19	0.08	8.94	9.01	0.07	2.32	2.39	—	18,972	18,972	0.63	0.95	0.09	19,270
General Office Building	8.09	7.71	5.20	42.2	0.11	0.05	5.19	5.24	0.04	1.35	1.39	—	11,302	11,302	0.49	0.65	0.05	11,509
Health Club	6.60	6.28	4.24	34.4	0.09	0.04	4.23	4.27	0.04	1.10	1.14	—	9,217	9,217	0.40	0.53	0.04	9,386
Hotel	1.55	1.48	1.00	8.10	0.02	0.01	1.00	1.00	0.01	0.26	0.27	—	2,168	2,168	0.09	0.13	0.01	2,208
Total	104	98.1	72.0	617	1.75	0.72	83.3	84.0	0.68	21.6	22.3	—	178,817	178,817	6.75	9.54	0.80	181,831
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.86	2.68	2.18	20.9	0.06	0.02	2.83	2.86	0.02	0.74	0.76	—	5,619	5,619	0.18	0.28	0.41	5,707
Elementary School	0.18	0.17	0.11	0.99	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	229	229	0.01	0.01	0.02	234

City Park	0.01	0.01	0.01	0.06	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	< 0.005	13.8
Medical Office Building	5.33	5.07	3.45	29.8	0.07	0.03	3.41	3.44	0.03	0.89	0.92	—	6,934	6,934	0.30	0.40	0.50	7,060
Apartments Mid Rise	4.12	3.86	3.14	30.2	0.09	0.03	4.08	4.12	0.03	1.06	1.09	—	8,097	8,097	0.27	0.40	0.60	8,224
Single Family Housing	1.63	1.53	1.24	12.0	0.03	0.01	1.62	1.63	0.01	0.42	0.43	—	3,210	3,210	0.11	0.16	0.24	3,260
General Office Building	1.11	1.05	0.72	6.18	0.02	0.01	0.71	0.71	0.01	0.18	0.19	—	1,438	1,438	0.06	0.08	0.10	1,464
Health Club	1.03	0.98	0.67	5.77	0.01	0.01	0.66	0.67	0.01	0.17	0.18	—	1,341	1,341	0.06	0.08	0.10	1,366
Hotel	0.28	0.27	0.18	1.58	< 0.005	< 0.005	0.18	0.18	< 0.005	0.05	0.05	—	367	367	0.02	0.02	0.03	373
Total	16.5	15.6	11.7	107	0.29	0.12	13.6	13.7	0.11	3.54	3.65	—	27,248	27,248	1.00	1.42	1.99	27,700

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	3,898	3,898	0.49	0.06	—	3,928
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	1,689	1,689	0.21	0.03	—	1,702

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	8,276	8,276	1.05	0.13	—	8,340
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.57	0.07	—	4,519
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,389	2,389	0.30	0.04	—	2,408
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5,284	5,284	0.67	0.08	—	5,325
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	1,268	1,268	0.16	0.02	—	1,278
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,500	1,500	0.19	0.02	—	1,511
Total	—	—	—	—	—	—	—	—	—	—	—	—	28,788	28,788	3.64	0.44	—	29,011
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	3,898	3,898	0.49	0.06	—	3,928
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	1,689	1,689	0.21	0.03	—	1,702
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	8,276	8,276	1.05	0.13	—	8,340
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,484	4,484	0.57	0.07	—	4,519

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,389	2,389	0.30	0.04	—	2,408
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5,284	5,284	0.67	0.08	—	5,325
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	1,268	1,268	0.16	0.02	—	1,278
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,500	1,500	0.19	0.02	—	1,511
Total	—	—	—	—	—	—	—	—	—	—	—	—	28,788	28,788	3.64	0.44	—	29,011
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	645	645	0.08	0.01	—	650
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	280	280	0.04	< 0.005	—	282
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,370	1,370	0.17	0.02	—	1,381
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	742	742	0.09	0.01	—	748
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	396	396	0.05	0.01	—	399
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	875	875	0.11	0.01	—	882
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	210	210	0.03	< 0.005	—	212
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	248	248	0.03	< 0.005	—	250
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,766	4,766	0.60	0.07	—	4,803

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	3,713	3,713	0.47	0.06	—	3,742
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	1,682	1,682	0.21	0.03	—	1,696
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	8,285	8,285	1.05	0.13	—	8,349
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,248	4,248	0.54	0.07	—	4,281
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,311	2,311	0.29	0.04	—	2,329
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5,289	5,289	0.67	0.08	—	5,330
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	1,272	1,272	0.16	0.02	—	1,282
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,427	1,427	0.18	0.02	—	1,438
Road Construction	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	28,229	28,229	3.57	0.43	—	28,447

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	3,690	3,690	0.47	0.06	—	3,719
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	1,675	1,675	0.21	0.03	—	1,688
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	8,272	8,272	1.05	0.13	—	8,336
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	4,215	4,215	0.53	0.06	—	4,248
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,302	2,302	0.29	0.04	—	2,320
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	5,281	5,281	0.67	0.08	—	5,322
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	1,268	1,268	0.16	0.02	—	1,278
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,424	1,424	0.18	0.02	—	1,435
Total	—	—	—	—	—	—	—	—	—	—	—	—	28,127	28,127	3.56	0.43	—	28,345
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	613	613	0.08	0.01	—	618
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	278	278	0.04	< 0.005	—	280
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,371	1,371	0.17	0.02	—	1,381
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	701	701	0.09	0.01	—	706
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	382	382	0.05	0.01	—	385
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	875	875	0.11	0.01	—	882
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	210	210	0.03	< 0.005	—	212
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	236	236	0.03	< 0.005	—	238
Road Construction	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,665	4,665	0.59	0.07	—	4,701

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.84	0.42	7.21	3.07	0.05	0.58	—	0.58	0.58	—	0.58	—	9,149	9,149	0.81	0.02	—	9,175
Elementary School	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,542	2,542	0.22	< 0.005	—	2,549
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Medical Office Building	0.49	0.24	4.43	3.72	0.03	0.34	—	0.34	0.34	—	0.34	—	5,280	5,280	0.47	0.01	—	5,295
Apartments Mid Rise	0.56	0.28	4.80	2.04	0.03	0.39	—	0.39	0.39	—	0.39	—	6,094	6,094	0.54	0.01	—	6,111
Single Family Housing	0.55	0.27	4.69	2.00	0.03	0.38	—	0.38	0.38	—	0.38	—	5,959	5,959	0.53	0.01	—	5,975
General Office Building	0.31	0.16	2.83	2.37	0.02	0.21	—	0.21	0.21	—	0.21	—	3,371	3,371	0.30	0.01	—	3,380
Health Club	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,538	2,538	0.22	< 0.005	—	2,545
Hotel	0.13	0.06	1.16	0.98	0.01	0.09	—	0.09	0.09	—	0.09	—	1,388	1,388	0.12	< 0.005	—	1,392
Total	3.35	1.67	29.4	17.8	0.18	2.31	—	2.31	2.31	—	2.31	—	36,320	36,320	3.21	0.07	—	36,421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.84	0.42	7.21	3.07	0.05	0.58	—	0.58	0.58	—	0.58	—	9,149	9,149	0.81	0.02	—	9,175
Elementary School	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,542	2,542	0.22	< 0.005	—	2,549
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	0.49	0.24	4.43	3.72	0.03	0.34	—	0.34	0.34	—	0.34	—	5,280	5,280	0.47	0.01	—	5,295
Apartments Mid Rise	0.56	0.28	4.80	2.04	0.03	0.39	—	0.39	0.39	—	0.39	—	6,094	6,094	0.54	0.01	—	6,111
Single Family Housing	0.55	0.27	4.69	2.00	0.03	0.38	—	0.38	0.38	—	0.38	—	5,959	5,959	0.53	0.01	—	5,975

General Office Building	0.31	0.16	2.83	2.37	0.02	0.21	—	0.21	0.21	—	0.21	—	3,371	3,371	0.30	0.01	—	3,380
Health Club	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,538	2,538	0.22	< 0.005	—	2,545
Hotel	0.13	0.06	1.16	0.98	0.01	0.09	—	0.09	0.09	—	0.09	—	1,388	1,388	0.12	< 0.005	—	1,392
Total	3.35	1.67	29.4	17.8	0.18	2.31	—	2.31	2.31	—	2.31	—	36,320	36,320	3.21	0.07	—	36,421
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.15	0.08	1.32	0.56	0.01	0.11	—	0.11	0.11	—	0.11	—	1,515	1,515	0.13	< 0.005	—	1,519
Elementary School	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	421	421	0.04	< 0.005	—	422
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	874	874	0.08	< 0.005	—	877
Apartments Mid Rise	0.10	0.05	0.88	0.37	0.01	0.07	—	0.07	0.07	—	0.07	—	1,009	1,009	0.09	< 0.005	—	1,012
Single Family Housing	0.10	0.05	0.86	0.36	0.01	0.07	—	0.07	0.07	—	0.07	—	987	987	0.09	< 0.005	—	989
General Office Building	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	558	558	0.05	< 0.005	—	560
Health Club	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	420	420	0.04	< 0.005	—	421
Hotel	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	230	230	0.02	< 0.005	—	230
Total	0.61	0.31	5.36	3.24	0.03	0.42	—	0.42	0.42	—	0.42	—	6,013	6,013	0.53	0.01	—	6,030

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,542	2,542	0.22	< 0.005	—	2,549
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	0.49	0.24	4.43	3.72	0.03	0.34	—	0.34	0.34	—	0.34	—	5,280	5,280	0.47	0.01	—	5,295
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.31	0.16	2.83	2.37	0.02	0.21	—	0.21	0.21	—	0.21	—	3,371	3,371	0.30	0.01	—	3,380
Health Club	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,538	2,538	0.22	< 0.005	—	2,545
Hotel	0.13	0.06	1.16	0.98	0.01	0.09	—	0.09	0.09	—	0.09	—	1,388	1,388	0.12	< 0.005	—	1,392
Total	1.39	0.70	12.7	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,118	15,118	1.34	0.03	—	15,160
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Element School	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,542	2,542	0.22	< 0.005	—	2,549
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	0.49	0.24	4.43	3.72	0.03	0.34	—	0.34	0.34	—	0.34	—	5,280	5,280	0.47	0.01	—	5,295
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.31	0.16	2.83	2.37	0.02	0.21	—	0.21	0.21	—	0.21	—	3,371	3,371	0.30	0.01	—	3,380
Health Club	0.23	0.12	2.13	1.79	0.01	0.16	—	0.16	0.16	—	0.16	—	2,538	2,538	0.22	< 0.005	—	2,545
Hotel	0.13	0.06	1.16	0.98	0.01	0.09	—	0.09	0.09	—	0.09	—	1,388	1,388	0.12	< 0.005	—	1,392
Total	1.39	0.70	12.7	10.6	0.08	0.96	—	0.96	0.96	—	0.96	—	15,118	15,118	1.34	0.03	—	15,160
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	421	421	0.04	< 0.005	—	422
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Medical Office Building	0.09	0.04	0.81	0.68	< 0.005	0.06	—	0.06	0.06	—	0.06	—	874	874	0.08	< 0.005	—	877
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	—	558	558	0.05	< 0.005	—	560
Health Club	0.04	0.02	0.39	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	420	420	0.04	< 0.005	—	421
Hotel	0.02	0.01	0.21	0.18	< 0.005	0.02	—	0.02	0.02	—	0.02	—	230	230	0.02	< 0.005	—	230
Total	0.25	0.13	2.31	1.94	0.01	0.18	—	0.18	0.18	—	0.18	—	2,503	2,503	0.22	< 0.005	—	2,510

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.09	1.05	17.9	7.62	0.11	1.45	—	1.45	1.45	—	1.45	0.00	22,721	22,721	0.43	0.04	—	22,745
Consumer Products	93.5	93.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.60	6.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	31.4	29.4	2.42	270	0.01	0.22	—	0.22	0.17	—	0.17	—	831	831	0.03	0.01	—	834
Total	134	131	20.3	278	0.13	1.67	—	1.67	1.62	—	1.62	0.00	23,553	23,553	0.46	0.05	—	23,579

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.09	1.05	17.9	7.62	0.11	1.45	—	1.45	1.45	—	1.45	0.00	22,721	22,721	0.43	0.04	—	22,745
Consumer Products	93.5	93.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.60	6.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	102	101	17.9	7.62	0.11	1.45	—	1.45	1.45	—	1.45	0.00	22,721	22,721	0.43	0.04	—	22,745
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.09	0.04	0.73	0.31	< 0.005	0.06	—	0.06	0.06	—	0.06	0.00	845	845	0.02	< 0.005	—	846
Consumer Products	17.1	17.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.20	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.82	2.65	0.22	24.3	< 0.005	0.02	—	0.02	0.02	—	0.02	—	67.9	67.9	< 0.005	< 0.005	—	68.1
Total	21.2	20.9	0.95	24.6	0.01	0.08	—	0.08	0.07	—	0.07	0.00	913	913	0.02	< 0.005	—	914

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	86.5	86.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.00	6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	92.5	92.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	86.5	86.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.00	6.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	92.5	92.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	15.8	15.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.10	1.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	16.9	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

4.4. 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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	84.9	182	267	8.72	0.21	—	548
Elementary School	—	—	—	—	—	—	—	—	—	—	—	21.0	45.1	66.1	2.16	0.05	—	136
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	162	348	511	16.7	0.40	—	1,047
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	122	263	385	12.6	0.30	—	789
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.6	462	497	3.61	0.09	—	615
General Office Building	—	—	—	—	—	—	—	—	—	—	—	141	308	450	14.5	0.35	—	917
Health Club	—	—	—	—	—	—	—	—	—	—	—	8.95	24.1	33.1	0.92	0.02	—	62.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	5.25	11.3	16.5	0.54	0.01	—	33.9
Total	—	—	—	—	—	—	—	—	—	—	—	581	1,644	2,225	59.7	1.44	—	4,148

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	84.9	182	267	8.72	0.21	—	548
Elementary School	—	—	—	—	—	—	—	—	—	—	—	21.0	45.1	66.1	2.16	0.05	—	136
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	162	348	511	16.7	0.40	—	1,047
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	122	263	385	12.6	0.30	—	789
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.6	462	497	3.61	0.09	—	615
General Office Building	—	—	—	—	—	—	—	—	—	—	—	141	308	450	14.5	0.35	—	917
Health Club	—	—	—	—	—	—	—	—	—	—	—	8.95	24.1	33.1	0.92	0.02	—	62.7
Hotel	—	—	—	—	—	—	—	—	—	—	—	5.25	11.3	16.5	0.54	0.01	—	33.9
Total	—	—	—	—	—	—	—	—	—	—	—	581	1,644	2,225	59.7	1.44	—	4,148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	14.0	30.2	44.2	1.44	0.03	—	90.7
Elementary School	—	—	—	—	—	—	—	—	—	—	—	3.48	7.47	10.9	0.36	0.01	—	22.4
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	26.9	57.7	84.6	2.76	0.07	—	173
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	20.2	43.5	63.7	2.08	0.05	—	131
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.74	76.6	82.3	0.60	0.02	—	102
General Office Building	—	—	—	—	—	—	—	—	—	—	—	23.4	51.1	74.5	2.41	0.06	—	152
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.48	3.99	5.48	0.15	< 0.005	—	10.4
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.87	1.87	2.74	0.09	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	96.1	272	368	9.89	0.24	—	687

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	84.9	182	267	8.72	0.21	—	548
Elementary School	—	—	—	—	—	—	—	—	—	—	—	21.0	45.1	66.1	2.16	0.05	—	136
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	162	348	511	16.7	0.40	—	1,047

Apartme Mid Rise	—	—	—	—	—	—	—	—	—	—	—	122	263	385	12.6	0.30	—	789
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.6	355	390	3.60	0.09	—	507
General Office Building	—	—	—	—	—	—	—	—	—	—	—	141	308	449	14.5	0.35	—	916
Health Club	—	—	—	—	—	—	—	—	—	—	—	8.95	23.4	32.4	0.92	0.02	—	62.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	5.25	11.3	16.5	0.54	0.01	—	33.9
Total	—	—	—	—	—	—	—	—	—	—	—	581	1,536	2,117	59.7	1.44	—	4,038
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhou se	—	—	—	—	—	—	—	—	—	—	—	84.9	182	267	8.72	0.21	—	548
Element ary School	—	—	—	—	—	—	—	—	—	—	—	21.0	45.1	66.1	2.16	0.05	—	136
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	162	348	511	16.7	0.40	—	1,047
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	122	263	385	12.6	0.30	—	789
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.6	355	390	3.60	0.09	—	507
General Office Building	—	—	—	—	—	—	—	—	—	—	—	141	308	449	14.5	0.35	—	916
Health Club	—	—	—	—	—	—	—	—	—	—	—	8.95	23.4	32.4	0.92	0.02	—	62.0

Hotel	—	—	—	—	—	—	—	—	—	—	—	5.25	11.3	16.5	0.54	0.01	—	33.9
Total	—	—	—	—	—	—	—	—	—	—	—	581	1,536	2,117	59.7	1.44	—	4,038
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	14.0	30.2	44.2	1.44	0.03	—	90.7
Elementary School	—	—	—	—	—	—	—	—	—	—	—	3.48	7.47	10.9	0.36	0.01	—	22.4
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	26.9	57.7	84.6	2.76	0.07	—	173
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	20.2	43.5	63.7	2.08	0.05	—	131
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	5.74	58.8	64.6	0.60	0.01	—	83.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	23.4	50.9	74.3	2.41	0.06	—	152
Health Club	—	—	—	—	—	—	—	—	—	—	—	1.48	3.88	5.36	0.15	< 0.005	—	10.3
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.87	1.87	2.74	0.09	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	96.1	254	350	9.89	0.24	—	669

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	473	0.00	473	47.3	0.00	—	1,656
Elementary School	—	—	—	—	—	—	—	—	—	—	—	265	0.00	265	26.5	0.00	—	927
City Park	—	—	—	—	—	—	—	—	—	—	—	1.29	0.00	1.29	0.13	0.00	—	4.51
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,929	0.00	3,929	393	0.00	—	13,746
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	682	0.00	682	68.2	0.00	—	2,387
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	205	0.00	205	20.5	0.00	—	718
General Office Building	—	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728
Health Club	—	—	—	—	—	—	—	—	—	—	—	243	0.00	243	24.3	0.00	—	849
Hotel	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	111
Total	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	473	0.00	473	47.3	0.00	—	1,656
Elementary School	—	—	—	—	—	—	—	—	—	—	—	265	0.00	265	26.5	0.00	—	927

City Park	—	—	—	—	—	—	—	—	—	—	—	1.29	0.00	1.29	0.13	0.00	—	4.51
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,929	0.00	3,929	393	0.00	—	13,746
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	682	0.00	682	68.2	0.00	—	2,387
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	205	0.00	205	20.5	0.00	—	718
General Office Building	—	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728
Health Club	—	—	—	—	—	—	—	—	—	—	—	243	0.00	243	24.3	0.00	—	849
Hotel	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	111
Total	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	78.4	0.00	78.4	7.83	0.00	—	274
Elementary School	—	—	—	—	—	—	—	—	—	—	—	43.8	0.00	43.8	4.38	0.00	—	153
City Park	—	—	—	—	—	—	—	—	—	—	—	0.21	0.00	0.21	0.02	0.00	—	0.75
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	650	0.00	650	65.0	0.00	—	2,276
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.0	0.00	34.0	3.40	0.00	—	119

General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.4	0.00	34.4	3.44	0.00	—	120
Health Club	—	—	—	—	—	—	—	—	—	—	—	40.2	0.00	40.2	4.02	0.00	—	141
Hotel	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	1,000	0.00	1,000	99.9	0.00	—	3,498

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	473	0.00	473	47.3	0.00	—	1,656
Elementary School	—	—	—	—	—	—	—	—	—	—	—	265	0.00	265	26.5	0.00	—	927
City Park	—	—	—	—	—	—	—	—	—	—	—	1.29	0.00	1.29	0.13	0.00	—	4.51
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,929	0.00	3,929	393	0.00	—	13,746
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	682	0.00	682	68.2	0.00	—	2,387
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	205	0.00	205	20.5	0.00	—	718
General Office Building	—	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728

Health Club	—	—	—	—	—	—	—	—	—	—	—	243	0.00	243	24.3	0.00	—	849
Hotel	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	111
Total	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	473	0.00	473	47.3	0.00	—	1,656
Elementary School	—	—	—	—	—	—	—	—	—	—	—	265	0.00	265	26.5	0.00	—	927
City Park	—	—	—	—	—	—	—	—	—	—	—	1.29	0.00	1.29	0.13	0.00	—	4.51
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	3,929	0.00	3,929	393	0.00	—	13,746
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	682	0.00	682	68.2	0.00	—	2,387
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	205	0.00	205	20.5	0.00	—	718
General Office Building	—	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728
Health Club	—	—	—	—	—	—	—	—	—	—	—	243	0.00	243	24.3	0.00	—	849
Hotel	—	—	—	—	—	—	—	—	—	—	—	31.9	0.00	31.9	3.19	0.00	—	111
Total	—	—	—	—	—	—	—	—	—	—	—	6,039	0.00	6,039	604	0.00	—	21,127
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	78.4	0.00	78.4	7.83	0.00	—	274

Element School	—	—	—	—	—	—	—	—	—	—	—	43.8	0.00	43.8	4.38	0.00	—	153
City Park	—	—	—	—	—	—	—	—	—	—	—	0.21	0.00	0.21	0.02	0.00	—	0.75
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	650	0.00	650	65.0	0.00	—	2,276
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	113	0.00	113	11.3	0.00	—	395
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	34.0	0.00	34.0	3.40	0.00	—	119
General Office Building	—	—	—	—	—	—	—	—	—	—	—	34.4	0.00	34.4	3.44	0.00	—	120
Health Club	—	—	—	—	—	—	—	—	—	—	—	40.2	0.00	40.2	4.02	0.00	—	141
Hotel	—	—	—	—	—	—	—	—	—	—	—	5.28	0.00	5.28	0.53	0.00	—	18.5
Total	—	—	—	—	—	—	—	—	—	—	—	1,000	0.00	1,000	99.9	0.00	—	3,498

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.46	1.46
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.6	16.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.77	6.77
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234	234
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.46	1.46
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.6	16.6

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.77	6.77
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234	234
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/T ownhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.75	2.75
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.12	1.12
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.17	0.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.15	0.15

Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.8	38.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2	45.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.46	1.46
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.6	16.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.77	6.77
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234	234
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.46	1.46
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.6	16.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.77	6.77
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.01	1.01
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	234	234
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	273	273
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Medical Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.75	2.75
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.12	1.12
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.17	0.17
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.15	0.15
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	38.8	38.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.2	45.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.8.2. Mitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.9.2. Mitigated

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

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

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

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

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2030	7/29/2030	5.00	150	—
Grading	Grading	7/30/2030	6/9/2031	5.00	225	—
Building Construction	Building Construction	6/10/2031	12/14/2037	5.00	1,700	—
Paving	Paving	12/15/2037	6/20/2044	5.00	1,700	—
Architectural Coating	Architectural Coating	6/21/2044	12/26/2050	5.00	1,700	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	40.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	10.2	HHDT,MHDT
Site Preparation	Hauling	10.0	20.0	HHDT
Site Preparation	Onsite truck	10.0	4.00	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT
Grading	Hauling	10.0	20.0	HHDT
Grading	Onsite truck	10.0	4.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	40.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10.0	10.2	HHDT,MHDT
Building Construction	Hauling	10.0	20.0	HHDT
Building Construction	Onsite truck	10.0	4.00	HHDT
Paving	—	—	—	—
Paving	Worker	40.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	10.0	20.0	HHDT
Paving	Onsite truck	10.0	4.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	40.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	10.0	20.0	HHDT
Architectural Coating	Onsite truck	10.0	4.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	40.0	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	10.0	10.2	HHDT,MHDT
Site Preparation	Hauling	10.0	20.0	HHDT
Site Preparation	Onsite truck	10.0	4.00	HHDT
Grading	—	—	—	—
Grading	Worker	40.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	10.0	10.2	HHDT,MHDT
Grading	Hauling	10.0	20.0	HHDT
Grading	Onsite truck	10.0	4.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	40.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	10.0	10.2	HHDT,MHDT
Building Construction	Hauling	10.0	20.0	HHDT
Building Construction	Onsite truck	10.0	4.00	HHDT
Paving	—	—	—	—
Paving	Worker	40.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	10.0	10.2	HHDT,MHDT
Paving	Hauling	10.0	20.0	HHDT
Paving	Onsite truck	10.0	4.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	40.0	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	10.0	10.2	HHDT,MHDT
Architectural Coating	Hauling	10.0	20.0	HHDT
Architectural Coating	Onsite truck	10.0	4.00	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	5,243,272	1,747,757	2,667,000	889,000	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	600	225	0.00	—
Grading	—	600	675	0.00	—
Paving	0.00	0.00	0.00	0.00	45.5

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
Elementary School	0.00	0%
City Park	0.00	0%
Medical Office Building	0.00	0%
Apartments Mid Rise	—	0%

Single Family Housing	5.34	0%
General Office Building	0.00	0%
Health Club	0.00	0%
Road Construction	40.2	100%
Hotel	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2030	0.00	532	0.03	< 0.005
2031	0.00	532	0.03	< 0.005
2032	0.00	532	0.03	< 0.005
2033	0.00	532	0.03	< 0.005
2034	0.00	532	0.03	< 0.005
2035	0.00	532	0.03	< 0.005
2036	0.00	532	0.03	< 0.005
2037	0.00	532	0.03	< 0.005
2038	0.00	532	0.03	< 0.005
2039	0.00	532	0.03	< 0.005
2040	0.00	532	0.03	< 0.005
2041	0.00	532	0.03	< 0.005
2042	0.00	532	0.03	< 0.005
2043	0.00	532	0.03	< 0.005
2044	0.00	532	0.03	< 0.005
2045	0.00	532	0.03	< 0.005
2046	0.00	532	0.03	< 0.005
2047	0.00	532	0.03	< 0.005
2048	0.00	532	0.03	< 0.005

2049	0.00	532	0.03	< 0.005
2050	0.00	532	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	8,007	8,007	8,007	2,922,599	59,531	59,531	59,531	21,728,668
Elementary School	756	0.00	0.00	197,100	3,319	0.00	0.00	865,378
City Park	21.7	54.5	60.9	11,669	95.2	239	267	51,234
Medical Office Building	21,506	5,785	958	5,958,403	94,421	25,398	4,208	26,160,684
Apartments Mid Rise	11,539	11,539	11,539	4,211,691	85,788	85,788	85,788	31,312,694
Single Family Housing	4,574	4,574	4,574	1,669,346	34,003	34,003	34,003	12,411,098
General Office Building	4,499	917	290	1,235,820	19,751	4,027	1,275	5,425,931
Health Club	3,669	1,649	2,112	1,152,576	16,108	7,239	9,271	5,060,446
Hotel	863	863	863	314,966	3,789	3,789	3,789	1,382,874

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	7,481	7,481	7,481	2,730,710	55,622	55,622	55,622	20,302,030
Elementary School	706	0.00	0.00	184,159	3,101	0.00	0.00	808,560
City Park	20.3	50.9	56.9	10,903	89.0	224	250	47,870
Medical Office Building	20,094	5,405	896	5,567,193	88,222	23,731	3,932	24,443,054
Apartments Mid Rise	10,781	10,781	10,781	3,935,164	80,156	80,156	80,156	29,256,798

Single Family Housing	4,273	4,273	4,273	1,559,742	31,770	31,770	31,770	11,596,223
General Office Building	4,203	857	271	1,154,679	18,455	3,762	1,192	5,069,681
Health Club	3,428	1,540	1,973	1,076,902	15,050	6,764	8,663	4,728,193
Hotel	806	806	806	294,286	3,540	3,540	3,540	1,292,079

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	775
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	141
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	304
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	55

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	141
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	55

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)
7244899	804,989	1,260,000	140,000	—

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	5,455,491	261	0.0330	0.0040	28,548,066
Elementary School	2,364,143	261	0.0330	0.0040	7,930,399
City Park	0.00	261	0.0330	0.0040	0.00
Medical Office Building	11,583,186	261	0.0330	0.0040	16,475,204
Apartments Mid Rise	6,275,908	261	0.0330	0.0040	19,014,915
Single Family Housing	3,344,145	261	0.0330	0.0040	18,592,643
General Office Building	7,395,419	261	0.0330	0.0040	10,518,784
Health Club	1,774,656	261	0.0330	0.0040	7,918,359
Hotel	2,099,055	261	0.0330	0.0040	4,330,755

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	5,164,653	261	0.0330	0.0040	0.00
Elementary School	2,344,223	261	0.0330	0.0040	7,930,399
City Park	0.00	261	0.0330	0.0040	0.00
Medical Office Building	11,577,133	261	0.0330	0.0040	16,475,204
Apartments Mid Rise	5,899,252	261	0.0330	0.0040	0.00
Single Family Housing	3,221,947	261	0.0330	0.0040	0.00
General Office Building	7,391,554	261	0.0330	0.0040	10,518,784
Health Club	1,774,656	261	0.0330	0.0040	7,918,359
Hotel	1,993,616	261	0.0330	0.0040	4,330,755

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	44,281,274	1,978
Elementary School	10,960,835	1,618
City Park	0.00	520
Medical Office Building	84,699,363	1,618
Apartments Mid Rise	63,812,746	1,958
Single Family Housing	18,077,793	128,124,409
General Office Building	73,759,505	1,618,430
Health Club	4,672,308	1,618,430
Hotel	2,739,611	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	44,281,274	1,756
Elementary School	10,960,835	1,396
City Park	0.00	448
Medical Office Building	84,699,363	1,396
Apartments Mid Rise	63,812,746	1,738
Single Family Housing	18,077,793	113,712,587
General Office Building	73,759,505	1,395,929
Health Club	4,672,308	1,395,929
Hotel	2,739,611	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	878	—
Elementary School	491	—
City Park	2.39	—
Medical Office Building	7,290	—
Apartments Mid Rise	1,266	—
Single Family Housing	381	—
General Office Building	386	—
Health Club	450	—
Hotel	59.1	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	878	—
Elementary School	491	—
City Park	2.39	—
Medical Office Building	7,290	—
Apartments Mid Rise	1,266	—
Single Family Housing	381	—
General Office Building	386	—
Health Club	450	—
Hotel	59.1	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Medical Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.45	0.60	0.00	1.00
Medical Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	34.8	annual days of extreme heat
Extreme Precipitation	1.35	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	1.27	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	5	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	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	5	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
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	88.7
AQ-PM	8.86

AQ-DPM	31.1
Drinking Water	53.1
Lead Risk Housing	43.0
Pesticides	0.00
Toxic Releases	97.0
Traffic	54.4
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	0.00
Solid Waste	81.6
Sensitive Population	—
Asthma	98.7
Cardio-vascular	87.7
Low Birth Weights	74.0
Socioeconomic Factor Indicators	—
Education	33.5
Housing	24.9
Linguistic	26.4
Poverty	81.5
Unemployment	47.0

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	10.68907994

Employed	7.955857821
Median HI	12.98601309
Education	—
Bachelor's or higher	27.70435006
High school enrollment	4.144745284
Preschool enrollment	69.84473245
Transportation	—
Auto Access	11.9209547
Active commuting	57.48748877
Social	—
2-parent households	0.61593738
Voting	46.63159245
Neighborhood	—
Alcohol availability	62.53047607
Park access	2.194276915
Retail density	56.08879764
Supermarket access	77.85191839
Tree canopy	53.25291929
Housing	—
Homeownership	1.642499679
Housing habitability	15.56525087
Low-inc homeowner severe housing cost burden	21.82728089
Low-inc renter severe housing cost burden	76.74836392
Uncrowded housing	51.79006801
Health Outcomes	—
Insured adults	27.22956499
Arthritis	93.9
Asthma ER Admissions	1.3

High Blood Pressure	92.9
Cancer (excluding skin)	91.6
Asthma	16.4
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	79.4
Life Expectancy at Birth	3.3
Cognitively Disabled	46.5
Physically Disabled	69.8
Heart Attack ER Admissions	1.6
Mental Health Not Good	23.2
Chronic Kidney Disease	90.3
Obesity	31.1
Pedestrian Injuries	19.6
Physical Health Not Good	47.6
Stroke	70.4
Health Risk Behaviors	—
Binge Drinking	11.9
Current Smoker	16.1
No Leisure Time for Physical Activity	49.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	0.4
Elderly	95.7
English Speaking	65.0
Foreign-born	22.2
Outdoor Workers	94.5

Climate Change Adaptive Capacity	—
Impervious Surface Cover	64.0
Traffic Density	60.4
Traffic Access	23.0
Other Indices	—
Hardship	55.1
Other Decision Support	—
2016 Voting	14.5

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	5.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Project Details	20 year build out
Construction: Construction Phases	estimate
Land Use	Proposed Land Uses
Construction: Trips and VMT	Estimated average project construction workforce
Operations: Vehicle Data	20% internal diverted. Updated H-W distance based on average distance driven by Lancaster residents. Weekday trip rates updated per traffic report
Operations: Hearths	No wood fireplaces. No fireplaces in apartments.
Operations: Road Dust	ARB average mean silt loading factor for collector streets 0.032 2.4 4.3 0.5 35
Operations: Architectural Coatings	From estimated land use acreage