
APPENDIX F

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PACIFIC GATEWAY PROJECT ENERGY TECHNICAL REPORT SAN JOAQUIN COUNTY, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AB	Assembly Bill
ACC	Advanced Clean Cars
ACF	Advanced Clean Fleets
ATCM	Airborne Toxic Control Measure
CalEEMod®	California Emissions Estimator Model®
CalGreen	California Green Building Standards Code
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COG	Council of Governments
CPUC	California Public Utilities Commission
CVRP	Clean Vehicle Rebate Project
DOORS	Diesel Off-Road Online Reporting System
DOT	U.S. Department of Transportation
EIR	Environmental Impact Report
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EV	Electric vehicle
GHG	greenhouse gas
GHS	grid harmonization strategies
GWh	gigawatt hours
HOV	high-occupancy vehicle
hp	horsepower
HVAC	Heating, Ventilation and Air Conditioning
IEPR	Integrated Energy Policy Report
ISTEA	Intermodal Surface Transportation Efficiency Act
kWh	kilowatt hours

ACRONYMS AND ABBREVIATIONS *(CONTINUED)*

Acronym	Definition
LCFS	Low Carbon Fuel Standard
LPG	liquefied petroleum gas
mpg	miles per gallon
MPO	Metropolitan Planning Organization
MW	megawatt
MWh	megawatt hours
NHTSA	National Highway Traffic Safety Administration
NO _x	oxides of nitrogen
PG&E	Pacific Gas and Electric Company
PM	particulate matter
RPS	Renewables Portfolio Standard
RTPs	regional transportation plans
SAFE	Safer Affordable Fuel-Efficient
SB	Senate Bill
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SDG&E	San Diego Gas & Electric
SR	State Route
TDV	time dependent valuation
TEA	Transportation Efficiency Act
VDECS	Verified Diesel Emission Control Strategies
VFW	Veteran of Foreign Wars
VMT	vehicle miles traveled
VW	Volkswagen
ZEV	zero-emission vehicle
ZNE	zero net energy

1. INTRODUCTION

Ramboll Americas Engineering Solutions, Inc. (Ramboll) was asked to prepare an Energy Technical Report for the proposed Pacific Gateway development in San Joaquin County, California (Project).

This Energy Technical Report analyzes the Project's energy impacts from construction and operations. In particular, this report describes the existing setting of the Project site, describes the relevant regulatory background, discusses the methodology used to evaluate energy impacts related to the Project, and evaluates potential impacts related to energy that would be affected as a result of implementation of the Project.

1.1 Existing Conditions

The existing 1,576.7-acre site is currently developed with active agricultural uses, which include commercial scale almond and cherry orchards, as well as an agricultural processing and manufacturing facility operated by A.B. FAB, Inc. This area is designated by both the General Plan and zoning as Agricultural. The site is located in southwest San Joaquin County, northeast of the Interstate 580 (I-580) and north of State Route 132 (SR 132). The site is approximately one mile from the southern boundary of the City of Tracy.

1.2 Project Analysis

The Project will include a variety of uses within the Specific Plan Area, including modern Class "A" industrial warehouse and distribution facilities, a university campus, commercial retail uses, business park, and a Veteran of Foreign Wars (VFW) facility. Open spaces and public facilities such as parks and pedestrian and bike facilities will also be incorporated to provide accessibility and recreational spaces for the workforce and community.

The Project includes Specific Plan zoning designations for Limited Industrial (I-L), General Commercial (C-G), Public (P-F), and Business Park (B-P) use types. The Proposed Plan will allow nonconforming existing agricultural uses to continue to operate at the adoption of the Pacific Gateway Specific Plan and until development in conformance with this Specific Plan occurs.

1.3 Mitigation Measures

The Project will include a number of mitigation measures. Those which are expected to result in a quantified impact are summarized below:

MM-Energy-1 (Solar Photovoltaic [PV])

The proposed project is incorporating solar PV panels sized to accommodate "Base Building" energy needs for limited industrial zoned buildings.¹

¹ "Base Building" shall be defined as energy to power LED warehouse lights, site lighting, no less than 3,000 SF of office, or more than 10,000 SF of office, up to 1 electric forklift charging station for every 40,000 SF of warehouse area, electricity to power one (1) quad outlet and dock equipment for any dock position utilized in tenant's business, warehouse air circulation at the rate of one (1) air change per hour, and all Title 24 requirements, including EV charging stations pursuant to Title 24.

MM-Energy-2 (Zero-Emission [ZE] Equipment)

The Project will utilize various zero-emission equipment. This includes forklift equipment and yard mules used at all industrial warehouse buildings greater than 300,000 square feet (22,993,500 square feet total). Additionally, all landscape equipment used to maintain individual building projects (24,675,000 square feet total) and Pacific Gateway master landscaping, parks and open space will be required to be zero-emission.

2. ENERGY ENVIRONMENTAL AND REGULATORY OVERVIEW

2.1 General Setting

2.1.1 Energy Production and Distribution

Among the states, California ranks eighth in the nation in production of crude oil and 15th in production of natural gas.² In 2023, renewable resources, including hydroelectric and small-scale consumer-sited power, accounted for 54% of California's in-state electricity generation. Natural gas and nuclear supplied the remaining in-state electricity generation.³

Electricity Supply

The production of electricity requires the combustion, consumption, or conversion of other energy resources, including water, wind, oil, natural gas, coal, solar, geothermal, and nuclear. Of the electricity that is generated within the state in 2023, 43.68 % is generated by natural gas-fired power plants, 19.17 % by solar, 14.80% by hydroelectric, 8.22% by nuclear power plants, 6.46% by wind, and a remaining 7.44% by other renewables.⁴

For San Joaquin County, Pacific Gas and Electric Company (PG&E) is the primary supplier of electricity to businesses and residents of the area. PG&E's 70,000-square-mile service area covers both Northern and Central California. By the end of 2023, about 47 percent of the energy delivered to PG&E's customers came from eligible renewable energy-related projects.⁵

Transportation Fuels Supply

Most petroleum fuel refined in California is for use in on-road motor vehicles and is refined within California to meet state-specific formulations required by the California Air Resources Board (CARB). The major categories of petroleum fuels are gasoline and diesel for passenger vehicles, transit, and rail vehicles; and fuel oil for industry and emergency electrical power generation. Other liquid fuels include kerosene, jet fuel, and residual fuel oil for marine vessels.

California's oil fields make it the third-largest petroleum-producing state in the United States, behind Texas and North Dakota (federal offshore production is the biggest producer in the United States). Crude oil is moved from area to area within California through a network of pipelines that carry it from both onshore and offshore oil wells to the refineries that are located in the San Francisco Bay Area, the Los Angeles area, and the Central Valley.

² U.S. Energy Information Administration. 2024. California State Profile and Energy Estimates: Profile Overview. Available online at: <http://www.eia.gov/state/?sid=CA>. Accessed: January 2025.

³ U.S. Energy Information Administration. 2024. California State Profile and Energy Estimates: Profile Analysis. Available online at: <https://www.eia.gov/state/analysis.cfm?sid=CA>. Accessed: January 2025.

⁴ California Energy Commission. 2025. 2023 Total System Electric Generation. Available online at: <https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2023-total-system-electric-generation>. Accessed: January 2025.

⁵ Pacific Gas and Electric Company. 2024. 2024 Corporate Responsibility and Sustainability Report. Executive Summary. Available online at: https://www.pgecorp.com/assets/pgecorp/csr/csr_2024/assets/PGE_CSR_2024_Executive_Summary.pdf. Accessed: January 2025.

Currently, 14 petroleum refineries operate in California, processing approximately 1.7 million barrels per day of crude oil.⁶

Other transportation fuel sources are alternative fuels, such as methanol and denatured ethanol (alcohol mixtures that contain no less than 70% alcohol), natural gas (compressed or liquefied), liquefied petroleum gas (LPG), hydrogen, and fuels derived from biological materials (i.e., biomass).

2.1.2 Energy Consumption

Electricity Consumption

Californians consumed 287,826 gigawatt hours (GWh) of electricity in 2022.⁷ Of this total, San Joaquin County consumed 5,771 GWh.⁸

Transportation Sector Fuels Consumption

The transportation sector is a major end-use of energy in California, accounting for approximately 42.6% of total state-wide energy consumption in 2022, the most recent year for which data is available.⁹ In addition, energy is consumed in connection with construction and maintenance of transportation infrastructure, such as streets, highways, freeways, rail lines, and airport runways.

2.2 Regulatory Overview

2.2.1 Federal Programs

2.2.1.1 Energy Policy and Conservation Act

The Energy Policy and Conservation Act of 1975 was established in response to the oil crisis of 1973, which increased oil prices due to a shortage of reserves. The Act requires that all vehicles sold in the U.S. meet certain fuel economy goals, known as the Corporate Average Fuel Economy standards. The National Highway Traffic Safety Administration (NHTSA) of the U.S. Department of Transportation (DOT) administers the Corporate Average Fuel Economy program, and the U.S. Environmental Protection Agency (EPA) provides the fuel economy data.

In April 2010, the EPA and NHTSA issued a final rulemaking establishing new federal fuel economy standards for model years 2012 to 2016 passenger cars and light-duty trucks. For model year 2012, the fuel economy standards for passenger cars, light trucks, and combined

⁶ U.S. Energy Information Administration. 2024. Petroleum & Other Liquids. Number and Capacity of Petroleum Refineries. Available online at: https://www.eia.gov/dnav/pet/pet_pnp_cap1_dcu_SCA_a.htm. Accessed: January 2025.

⁷ A watt hour is a unit of energy equivalent to one watt of power expended for one hour. For example, a typical light bulb is 60 watts, meaning that if it is left on for one hour, 60-watt hours have been used. One kilowatt equals 1,000 watts. The consumption of electrical energy by homes and businesses is usually measured in kilowatt hours (kWh). Some large businesses and institutions also use megawatt hours (MWh), where one MWh equals 1,000 kWh. One gigawatt equals one thousand (1,000) megawatts, or one million (1,000,000) kilowatts. The energy output of large power plants over long periods of time, or the energy consumption of jurisdictions, can be expressed in gigawatt hours (GWh).

⁸ Electricity data for San Joaquin County and the State of California in 2022 are obtained from the California Energy Commission, electricity consumption by county. Available at: <https://ecdms.energy.ca.gov/elecbycounty.aspx>. Accessed: January 2025.

⁹ U.S. Energy Information Administration. 2024. California State Profile and Energy Estimates: California Energy Consumption by End-Use Sector, 2022. Available online at: <https://www.eia.gov/state/?sid=CA#tabs-2>. Accessed: January 2025.

cars and trucks were 33.3 miles per gallon (mpg), 25.4 mpg, and 29.7 mpg, respectively.¹⁰ These standards increase progressively up to 37.8 mpg, 28.8 mpg, and 34.1, respectively, for model year 2016. In subsequent rulemakings, the agencies extended the national program of fuel economy standards to passenger vehicles and light-duty trucks of model years 2017-2025, culminating in fuel economy of 54.5 mpg by model year 2025,¹¹ as well as to medium- and heavy-duty vehicles of model years 2014-2018, including large pickup trucks and vans, semi-trucks, and all types and sizes of work trucks and buses.¹²

In August 2016, the EPA and NHTSA adopted the next phase (Phase 2) of the fuel economy and GHG standards for medium- and heavy-duty trucks, which apply to vehicles with model year 2018 and later.¹³ In response to the EPA's adoption of the Phase 2 standards, CARB staff brought a proposed California Phase 2 program before its Board in 2017; and the Board approved the program in March 2018.¹⁴

In 2018, the EPA and NHTSA proposed to amend certain existing Corporate Average Fuel Economy standards for passenger cars and light trucks and establish new standards, covering model years 2021-2026. Compared to maintaining the post-2020 standards now in place, the proposal would increase U.S. fuel consumption.¹⁵

In 2019, the EPA and NHTSA announced the One National Program Rule, which allows the federal government to set the standard for uniform fuel economy and greenhouse gas emissions of automobiles and light-duty trucks. This rule pre-empts state and local programs from setting the national standard, which includes California's GHG and ZEV programs.¹⁶

In December 2021, EPA finalized revised national greenhouse gas emissions standards for passenger cars and light trucks for model years 2023-2026.¹⁷

¹⁰ United States Environmental Protection Agency (EPA) and United States Department of Transportation (DOT). 2010. *Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards*. Final Rule. 75 Fed. Reg. 25324-25728.

¹¹ United States Environmental Protection Agency (EPA) and United States Department of Transportation (DOT). 2012. *2017 and Later Model Year Light-Duty Vehicle Greenhouse Gas Emissions and Corporate Average Fuel Economy Standards*; Final Rule. 77 Fed. Reg. 62623.

¹² United States Environmental Protection Agency (EPA) and United States Department of Transportation (DOT). 2011. *Greenhouse Gas Emissions Standards and Fuel Efficiency Standards for Medium- and Heavy-Duty Engines and Vehicles*. 76 Fed. Reg. 57106.

¹³ USEPA. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-greenhouse-gas-emissions-and-fuel-efficiency>. Accessed: February 2025.

¹⁴ CARB. CA Phase 2 GHG webpage: <https://ww2.arb.ca.gov/our-work/programs/greenhouse-gas-standards-medium-and-heavy-duty-engines-and-vehicles/phase2>. Accessed: February 2025.

¹⁵ Federal Register. 2018. *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks*. Available at: <https://www.federalregister.gov/documents/2018/08/24/2018-16820/the-safer-affordable-fuel-efficient-safe-vehicles-rule-for-model-years-2021-2026-passenger-cars-and>. Accessed: February 2025.

¹⁶ EPA. 2019. *Trump Administration Announces One National Program Rule on Federal Preemption of State Fuel Economy Standards*. Available at: <https://www.epa.gov/newsreleases/trump-administration-announces-one-national-program-rule-federal-preemption-state-fuel>. Accessed: February 2025.

¹⁷ United States Environmental Protection Agency. 2021. *Regulations for Greenhouse Gas Emissions from Passenger Cars and Trucks*. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/regulations-greenhouse-gas-emissions-passenger-cars-and>. Accessed: February 2025.

2.2.1.2 Energy Policy Act of 2005 and Energy Independence and Security Act of 2007

The Energy Policy Act of 2005 seeks to reduce reliance on non-renewable energy resources and provide incentives to reduce current demand on these resources. For example, under the Energy Policy Act, consumers and businesses can attain federal tax credits for purchasing fuel-efficient appliances and products. Because driving fuel-efficient vehicles and installing energy-efficient appliances can provide many benefits, such as lower energy bills, increased indoor comfort, and reduced air pollution, businesses are eligible for tax credits for buying hybrid vehicles, building energy-efficient buildings, and improving the energy efficiency of commercial buildings. Additionally, tax credits are given for the installation of qualified fuel cells, stationary microturbine power plants, and solar power equipment.

The Energy Policy Act of 2005 also established the first renewable fuel volume mandate in the United States. The original Renewable Fuel Standard program required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. The Energy Independence and Security Act of 2007 (EISA)¹⁸ facilitates the reduction of national GHG emissions by aiming to:

- Move the United States toward greater energy independence and security.
- Increase the production of clean renewable fuels.
- Protect consumers.
- Increase the efficiency of products, buildings and vehicles.
- Promote research and deploy GHG capture and storage options.
- Improve the energy performance of the Federal Government.
- Increase U.S. energy security, develop renewable fuel production, and improve vehicle fuel economy.

EPA has enacted three key provisions (the CAFE Standards, the Renewable Fuel Standard, and the appliance/lighting efficiency standards) to reinforce these energy reduction goals and has committed to develop, implement, and revise regulations and voluntary programs for the following in EISA, among others:

- Increased CAFE Standards
- Federal Vehicle Fleets
- Renewable Fuel Standard
- Biofuels Infrastructure
- Carbon Capture and Sequestration

¹⁸ USEPA. Summary of the Energy Independence and Security Act. June 2024. Available at: <https://www.epa.gov/laws-regulations/summary-energy-independence-and-security-act>. Accessed: February 2025.

Under the Energy Independence and Security Act of 2007, the Renewable Fuel Standard program was expanded to include diesel and to increase the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022.

2.2.1.3 American Recovery and Reinvestment Act

The American Recovery and Reinvestment Act of 2009 was passed in response to the economic crisis of the late 2000s, with the primary purpose of maintaining existing jobs and creating new jobs. Among the secondary objectives of the American Recovery and Reinvestment Act was investment in “green” energy programs, including funding the following through grants, loans, or other mechanisms: private companies developing renewable energy technologies; local and state governments implementing energy efficiency and clean energy programs; research in renewable energy, biofuels, and carbon capture; and development of high efficiency or electric vehicles.¹⁹

2.2.1.4 Intermodal Surface Transportation Efficiency Act

The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 promotes the development of intermodal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. The ISTEA contains factors that metropolitan planning organizations (MPO), such as the Kern Council of Governments (Kern COG), are to address in developing transportation plans and programs, including some energy-related factors. To meet the ISTEA requirements, MPOs have adopted explicit policies defining the social, economic, energy, and environmental values that guide transportation decisions in their respective metropolitan areas. The planning process for specific projects would then address these policies. Another requirement of the ISTEA is to consider the consistency of transportation planning with federal, state, and local energy goals. Through this requirement, energy consumption is expected to be a decision criterion, along with cost and other values to determine the best transportation solution.

2.2.1.5 Transportation Equity Act for the 21st Century

The Transportation Equity Act for the 21st Century (“TEA-21”) was signed into law in 1998 and builds upon the initiatives established in the ISTEA legislation discussed above. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. TEA-21 continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of good transportation decisions. TEA-21 also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of Intelligent Transportation Systems, to help improve operations and management of transportation systems and vehicle safety.

¹⁹ United States Environmental Protection Agency (EPA). 2009. *Recovery: EPA Gets Involved*. Available at: <https://archive.epa.gov/recovery/web/html/>. Accessed: February 2025.

2.2.2 State Programs

2.2.2.1 AB 32, SB 32, AB 1279 (State-wide GHG Reductions with Energy Co-Benefits)

The California Global Warming Solutions Act of 2006 (AB 32) was signed into law in September 2006.²⁰ The law instructed CARB to develop and enforce regulations for the reporting and verification of state-wide GHG emissions. The bulk of GHG emissions in California are carbon dioxide that result from fossil fuel consumption. Therefore, a reduction in GHG emissions typically translates into reduced fuel and increased energy efficiency. The bill directed CARB to set a state-wide GHG emission limit based on 1990 levels, to be achieved by 2020.

AB 32 requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG reductions. In December 2008, CARB adopted its Climate Change Scoping Plan: A Framework for Change (Scoping Plan), which included the state's strategies for achieving AB 32's reduction targets. These strategies are implemented with additional rules and regulations of relevance to energy analysis, such as the Advanced Clean Cars Program, the low carbon fuel standard (LCFS), Title 24 building efficiency standards, and the Renewable Portfolio Standard (RPS). These are discussed further below.

Enacted in 2016, Senate Bill (SB) 32 (Pavley, 2016) codifies a 2030 GHG emissions reduction goal and requires CARB to ensure that state-wide GHG emissions are reduced to 40 percent below 1990 levels by 2030. Similar to AB 32, a reduction in GHG emissions typically corresponds with a reduction in energy usage as the bulk of GHGs result from the combustion of fossil fuel.

Enacted in 2022, AB 1279 declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter. Additionally, the bill requires that by 2045, state-wide anthropogenic GHG emissions be reduced to at least 85% below 1990 levels.

2.2.2.2 SB 350 (Clean Energy and Pollution Reduction Act of 2015)

The Clean Energy and Pollution Reduction Act of 2015 (SB 350) increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This bill requires the State Energy Resources Conservation and Development Commission to establish annual targets for state-wide energy efficiency savings and demand reduction that will achieve a cumulative doubling of state-wide energy efficiency savings in electricity and natural gas final end uses of retail customers by January 1, 2030.

2.2.2.3 2022 Integrated Energy Policy Report Update

The 2022 Integrated Energy Policy Report (IEPR) Update provides an assessment of major energy trends and issues for a variety of energy sectors, as well as policy recommendations.²¹ Prepared by the California Energy Commission (CEC), this report details the key energy issues facing California and develops potential strategies to address these

²⁰ CARB. Assembly Bill 32 Overview. 2006a. Available at: <http://www.arb.ca.gov/cc/ab32/ab32.htm>. Accessed: February 2025.

²¹ California Energy Commission. 2022. 2022 Integrated Energy Policy Report Update. Available at: <https://www.energy.ca.gov/data-reports/reports/integrated-energy-policy-report/2022-integrated-energy-policy-report-update>. Accessed: February 2025.

issues. The 2022 IEPR Update includes a discussion of several strategies to reduce climate change impacts and lessen energy consumption and recommendations for each topic. Examples include a discussion grid reliability, integration within the Western Interconnection, the role of hydrogen to support California's future energy demand, and the transition from fossil gas. The assessments and forecasted energy demand within this report will be used by the CEC to develop future energy policies. The 2023 IEPR is available in draft form, but has not been formally adopted at this time.

2.2.2.4 Title 24 Building Energy Efficiency Standards

The California Green Building Standards Code, as specified in Title 24, Part 11 of the California Code of Regulations, commonly referred to as CalGreen Building Standards (CalGreen), establishes voluntary and mandatory standards to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a positive environmental impact and encouraging sustainable construction practices in five categories: planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and environmental quality. The provisions of this code apply to the planning, design, operation, construction, replacement, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such building structures throughout California. Examples of CalGreen provisions include reducing indoor water use, moisture sensing irrigation systems for landscaped areas, construction waste diversion goals, and energy system inspections. CalGreen is periodically amended; the most recent 2022 standards became effective on January 1, 2023.

The Energy Efficiency Standards for Residential and Non-residential Buildings, as specified in Title 24, Part 6, of the California Code of Regulations, were established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods for building features such as space conditioning, water heating, lighting, and whole envelope. The 2005, 2008, and 2013 updates to the efficiency standards included provisions such as cool roofs on commercial buildings, increased use of skylights, and higher efficiency lighting, HVAC, and water heating systems. Additionally, some standards focused on larger energy-saving concepts such as reducing loads at peak periods and seasons and improving the quality of such energy-saving installations. Past updates to the Title 24 standards have proven very effective in reducing building energy use, with the 2013 update estimated to reduce energy consumption in residential buildings by 25% and energy consumption in commercial buildings by 30%, relative to the 2008 standards.²² The 2016 updates included additional high efficiency lighting requirements, high performance attic and walls, and higher efficiency water and space heaters. The 2016 standards were expected to reduce residential electricity consumption by 28% and non-residential electricity by 5%.²³ The 2019 updates included a requirement for solar photovoltaic systems for new homes, requirements for newly constructed healthcare facilities, additional high efficiency lighting requirements, high performance attic and walls,

²² CEC. 2012. Energy Commission Approves More Efficient Buildings for California's Future. Available at: <https://planning.lacity.org/eir/CrossroadsHwd/deir/files/references/C17.pdf>. Accessed: February 2025.

²³ CEC. 2015. 2016 Building Energy Efficiency Standards Adoption Hearing. Available at: https://web.archive.org/web/20190602115405/http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/2015-06-10_hearing/2015-06-10_Adoption_Hearing_Presentation.pdf. Accessed: February 2025.

higher efficiency water and space heaters, and high efficiency air filters. The 2019 standards were expected to reduce high-rise residential and non-residential electricity consumption by approximately 10.7% and natural gas consumption by 1% and require new low-rise residential buildings to achieve zero net electricity consumption using a combination of building efficiency and on-site renewable electricity generation.²⁴

The 2022 Title 24 standards are the currently applicable building energy efficiency standards, and became effective on January 1, 2023.²⁵ The 2022 updates included revisions to the requirements for non-residential electric vehicle (EV) charging, including requirements for the inclusion of a minimum number of EV capable spaces and minimum number of EV charging stations based on total parking quantities, and the facilitation of future EV installation for medium- and heavy-duty EV stations for various land uses including warehouse and retail uses.

As the Project phasing schedule anticipates buildout as early as 2056, further reductions can be anticipated from future Title 24 code cycles. Thus, this analysis represents a conservative estimate of energy-related emissions. Estimated Project energy use rates for both the unmitigated and mitigated case are based on data provided by ConSol, which is described in more detail in Section 4.2 below.

The California Public Utilities Commission, CEC, and CARB also have a shared, established goal of achieving Zero Net Energy (ZNE) for new construction in California. The key policy timelines include: (1) all new residential construction in California will be ZNE by 2020, and (2) all new commercial construction in California will be ZNE by 2030. The ZNE goal generally means that new buildings must use a combination of improved efficiency and renewable energy generation to meet 100 percent of their annual energy need, as specifically defined by the CEC:

"A ZNE Code Building is one where the value of the energy produced by on-site renewable energy resources is equal to the value of the energy consumed annually by the building, at the level of a single 'project' seeking development entitlements and building code permits, measured using the [CEC]'s Time Dependent Valuation (TDV) metric. A ZNE Code Building meets an Energy Use Intensity value designated in the Building Energy Efficiency Standards by building type and climate zone that reflect best practices for highly efficient buildings."²⁶

While the adopted 2019 Title 24 standards do not achieve the 2020 ZNE goal, they do move the State further along the path to achieving this goal. The CEC has more recently focused on grid harmonization strategies (GHS), to bring maximum benefits to the grid, environment, and occupants; and GHG emissions reductions.²⁷

²⁴ CEC. 2023. 2022 Title 24 Impact Analysis. June. Available at: <https://www.energy.ca.gov/publications/2023/impact-analysis-2022-update-california-energy-code>. Accessed: February 2025.

²⁵ CEC. 2019. California's Energy Efficiency Standards for Residential and Nonresidential Buildings. Available online at: <https://www.energy.ca.gov/publications/2022/2022-building-energy-efficiency-standards-residential-and-nonresidential>. Accessed: February 2025.

²⁶ CEC, 2015 Integrated Energy Policy Report (2015), p. 41.

²⁷ CEC. 2018. The 2019 Building Energy Efficiency Standards ZNE Strategy. September 11. Available at: <https://www.cesa.org/wp-content/uploads/CESA-webinar-slides-9.11.2018.pdf>. Accessed: February 2025.

At the time of this writing, the CEC had adopted the 2022 Energy Code. In December 2021, the California Building Standards Commission approved the code for inclusion into the California Building Standards Code. The Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for or after January 1, 2023, must comply with the 2022 Energy Code.

2.2.2.5 Renewables Portfolio Standard

SB 1078 (2002) requires retail sellers of electricity, including investor-owned utilities and community choice aggregators, to obtain at least 20 percent of their energy supply from renewable sources by 2017. SB 107 (2006) changed that target date to 2010. In November 2008, then-Governor Schwarzenegger signed Executive Order S-14-08, which expanded the state's RPS to 33 percent renewable power by 2020. In April 2011, then-Governor Brown signed SB 2X, which legislated the prior Executive Order S-14-08 renewable standard. SB 350 (2015) set an additional RPS goal of 50 percent renewables by 2030. And SB 100 (2018) accelerated and extended again the RPS – requiring achievement of a 50 percent RPS by 2026 and a 60 percent RPS by 2030. SB 100 also established a state policy goal to achieve 100 percent carbon-free electricity by 2045. SB 1020 (September 2022) revises the standards from SB 100, requiring the following percentage of retail sales of electricity to California end-use customers to come from eligible renewable energy resources and zero-carbon resources: 90% by December 31, 2035, 95% by December 31, 2040, and 100% by December 31, 2045.

2.2.2.6 Mobile Source Regulations

SB 743 (Transportation Analysis Under CEQA)

Public Resources Code Section 21099(c)(1), as codified through enactment of SB 743, was enacted with the intent to change the focus of transportation analyses conducted under the California Environmental Quality Act (CEQA). It authorized the Governor's Office of Planning and Research to establish "alternative metrics to the metrics used for traffic levels of service for transportation impacts outside transit priority areas." SB 743 reflects a legislative policy to balance the needs of congestion management with state-wide goals related to infill development, promotion of public health through active transportation, and reduction of GHG emissions. As finalized in December 2018, amendments to the State CEQA Guidelines adopted in furtherance of SB 743 establish vehicle miles traveled (VMT), in lieu of level of service, as the new metric for transportation analysis. Implementation of SB 743 is anticipated to improve the efficiency of transportation fuels consumption.

SB 375 (Land Use Planning)

SB 375, the Sustainable Communities and Climate Protection Act of 2008, supports the State's climate action goals to reduce GHG emissions from passenger vehicles through better integrated coordinated transportation, land use, and housing planning that provides easier access to jobs, services, public transit, and active transportation options. SB 375 required CARB to establish GHG emission reduction targets (Regional Targets) for each metropolitan planning region. On September 23, 2010, CARB adopted Regional Targets applying to the years 2020 and 2035. In 2011, CARB adopted Regional Targets of 5% for 2020 and 10% for 2035 for the area under the jurisdiction of San Joaquin Council of Governments (SJCOG). These targets were in place through September 30, 2018. In March 2018, CARB approved

updated regional targets of 12% for 2020 and 16% for 2035 for SJCOG, which will be applied by SJCOG in future planning cycles. The targets are expressed as a percentage change in per capita passenger vehicle GHG emissions relative to 2005 emissions levels.

SB 375 requires MPOs, including SJCOG, to incorporate a “sustainable communities strategy” (SCS) in their regional transportation plans (RTPs) that will achieve the GHG emission Reduction Targets set by CARB, primarily by reducing VMT from light-duty vehicles through development of more compact, complete, and efficient communities. SJCOG prepared the 2018 Regional Transportation Plan and SCS²⁸ to fulfill this requirement; and the CARB accepted SJCOG’s GHG quantification demonstration for that plan, which demonstrates achievement of the targets set prior to 2018.²⁹ Most recently, SJCOG has adopted their 2022 Regional Transportation Plan Update on August 25, 2022.

Advanced Clean Cars Program and Advanced Clean Fleets Program

In 2012, CARB approved the Advanced Clean Cars (ACC) program, a new emissions-control program for non-commercial passenger vehicles and light-duty truck for model years 2017-2025. The program combines the control of smog, soot, and GHGs with requirements for greater numbers of zero-emission vehicles. By 2025, when the rules will be fully implemented, new automobiles will emit 34 percent fewer global warming gases and 75 percent fewer smog-forming emissions. In August 2022, CARB adopted Advanced Clean Cars II (ACC II) regulations which “will seek to reduce criteria and greenhouse gas emissions from new light- and medium-duty vehicles beyond the 2025 model year, and increase the number of zero-emission vehicles (ZEVs) for sale”.³⁰ In April 2023, CARB adopted the Advanced Clean Fleets (ACF) regulation which, “requires fleets that are well suited for electrification to reduce emissions through requirements to both phase-in the use of ZEVs for targeted fleets and requirements that manufacturers only manufacture ZEV trucks starting in the 2036 model year”.³¹

Commercial Motor Vehicle Idling Regulation

In July 2004, CARB initially adopted an Airborne Toxic Control Measure (ATCM) to limit idling of diesel-fueled commercial motor vehicles (idling ATCM) and subsequently amended it in October 2005, October 2009, and December 2013. This ATCM is set forth in Title 13, California Code of Regulations, Section 2485, and requires, among other things, that drivers of diesel-fueled commercial motor vehicles with gross vehicle weight ratings greater than 10,000 pounds, including buses and sleeper berth equipped trucks, not idle the vehicle’s primary diesel engine longer than five minutes at any location. This anti-idling regulation helps to reduce fuel consumption by reducing engine usage. The ATCM also requires owners and motor carriers that own or dispatch these vehicles to ensure compliance with the ATCM

²⁸ San Joaquin Council of Governments. 2022. The 2022 Regional Transportation Plan and Sustainable Communities Strategy. Available at: <https://www.sjcog.org/275/RTP-Sustainable-Communities-Strategy>. Accessed: February 2025.

²⁹ CARB. 2020. Technical Evaluation of the Greenhouse Gas Emissions Reduction Quantification for San Joaquin Council of Governments’ SB 375 2018 Sustainable Communities Strategy. Available at: <https://ww2.arb.ca.gov/sites/default/files/2021-02/Technical%20Evaluation%20of%20the%20GHG%20Emissions%20Reduction%20Quantification%20for%20the%20SJCOG%20SB%20375%20SCS%20Sept%202020.pdf>. Accessed: February 2025.

³⁰ Advanced Clean Cars II Program. Available at: <https://ww2.arb.ca.gov/advanced-clean-cars-ii-meetings-workshops>. Accessed: February 2025.

³¹ Advanced Clean Fleets. Available at: <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets>. Accessed: February 2025.

requirements. The regulation consists of new engine and in-use truck requirements and emission performance requirements for technologies used as alternatives to idling the truck's main engine. Under the new engine requirements, 2008 and newer model year heavy-duty diesel engines need to be equipped with a non-programmable engine shutdown system that automatically shuts down the engine after five minutes of idling or optionally meet a stringent oxides of nitrogen idling emission standard.

In-Use Off-Road Diesel-Fueled Fleets Regulation

In May 2008, CARB approved the In-Use Off-Road Diesel-Fueled Fleets Regulation (Off-Road Regulation), which was later amended in December 2009, July 2010, and December 2011. The overall purpose of the Off-Road Regulation is to reduce emissions of oxides of nitrogen (NO_x) and particulate matter (PM) from off-road diesel vehicles operating within California. The regulation applies to all self-propelled off-road diesel vehicles 25 horsepower (hp) or greater used in California and most two-engine vehicles. The Off Road Regulation:

- Imposes limits on idling (i.e., fleets must limit unnecessary idling to 5 minutes), requires a written idling policy, and requires a disclosure when selling vehicles;
- Requires all vehicles to be reported to CARB (using the Diesel Off-Road Online Reporting System, DOORS) and labeled;
- Restricts the adding of older vehicles into fleets starting on January 1, 2014; and
- Requires fleets to reduce their emissions by retiring, replacing, or repowering older engines, or installing Verified Diesel Emission Control Strategies (VDECS) (i.e., exhaust retrofits).

The anti-idling component of this Off-Road Regulation helps to reduce fuel consumption by reducing engine usage.

The latest amendments include the following changes:³²

- Phase out of the oldest and highest-emitting off-road engines from operation;
- Restrict the addition of vehicles with Tier 3 and Tier 4 Interim engines;
- Require contracting entities to obtain and retain a fleet's valid Certificate of Reported Compliance prior to awarding a contract or hiring a fleet;
- Mandate the use of R99 or R100 Renewable Diesel for all fleets;
- Provide voluntary compliance flexibility options for fleets that adopt zero-emission technology; and
- Provide additional flexibility for permanent low-use vehicles.

³² CARB. 2022. Rulemaking Documents for the In-Use Off-Road Diesel-Fueled Fleets Regulation. Available at: <https://ww2.arb.ca.gov/our-work/programs/use-road-diesel-fueled-fleets-regulation/rulemaking-documents>. Accessed: February 2025.

Tractor-Trailer Greenhouse Gas Regulation

CARB's Tractor-Trailer Greenhouse Gas regulation reduces the energy consumption of large trucks. CARB developed this regulation to make heavy-duty tractors more fuel-efficient. Fuel efficiency is improved by requiring the use of aerodynamic tractors and trailers that are also equipped with low rolling resistance tires. The tractors and trailers subject to this regulation must either use EPA's SmartWay (SmartWay) certified tractors and trailers or retrofit their existing fleet with SmartWay verified technologies. The SmartWay certification process is part of their broader voluntary program called the SmartWay Transport Partnership Program. The regulation applies primarily to owners of 53-foot or longer box-type trailers, and owners of the heavy-duty tractors that pull them on California highways. These owners are responsible for replacing or retrofitting their affected vehicles with compliant aerodynamic technologies and low rolling resistance tires. All owners regardless of where their vehicle is registered must comply with the regulation when they operate their affected vehicles on California highways. Besides the owners of these vehicles, drivers, motor carriers, California-based brokers and California-based shippers that operate or use them also share in the responsibility for compliance with the regulation.

Zero-Emission Vehicles

ZEVs include hydrogen fuel cell EVs and plug-in EVs, such as battery EVs and plug-in hybrid electric vehicles.

In 2012, Governor Brown issued Executive Order (EO) B-16-2012, which calls for the increased penetration of ZEVs into California's vehicle fleet in order to help California achieve a reduction of GHG emissions from the transportation sector equaling 80 percent less than 1990 levels by 2050. In furtherance of that state-wide target for the transportation sector, the EO also calls upon CARB, the CEC and the California Public Utilities Commission to establish benchmarks that will: (1) allow over 1.5 million ZEVs to be on California roadways by 2025, and (2) provide the State's residents with easy access to ZEV infrastructure. EO B-16-2012 specifically directed California to "encourage the development and success of ZEVs to protect the environment, stimulate economic growth, and improve the quality of life in the State."³³

In 2018, Governor Brown also issued EO B-48-18, which launched an eight-year initiative to accelerate the sales of ZEVs through a mix of rebate programs and infrastructure improvements. The EO also sets a new target of five million ZEVs in California by 2030 and includes funding for multiple state agencies to increase EV charging infrastructure and provide purchase rebates/incentives.

In furtherance of the State's ZEV penetration goals, in February 2013, the Governor's Interagency Working Group on Zero-emission Vehicles issued the *2013 ZEV Action Plan: A roadmap toward 1.5 million zero-emission vehicles on California roadways by 2025*.³⁴ The 2013 ZEV Action Plan identifies four broad goals for State government to advance ZEVs: 1) Complete needed infrastructure and planning; 2) Expand consumer awareness and demand; 3) Transform fleets; and 4) Grow jobs and investment in the private sector. As part of these goals, some highlighted strategies and actions include: i) supporting ZEV

³³ Executive Order B-16-2012. Available at: <https://www.ca.gov/archive/gov39/2012/03/23/news17472/>. Accessed: February 2025

³⁴ Governor's Interagency Working Group on Zero-emission Vehicles. 2013. Available at: [http://opr.ca.gov/docs/Governors_Office_ZEV_Action_Plan_\(02-13\).pdf](http://opr.ca.gov/docs/Governors_Office_ZEV_Action_Plan_(02-13).pdf). Accessed: February 2025.

infrastructure planning and investment by private entities; ii) enabling universal access to ZEV infrastructure for California drivers; iii) reducing upfront purchase costs for ZEVs; iv) promoting consumer awareness of ZEVs; and v) helping to expand ZEVs in bus fleets. The Action Plan discusses the challenges of ZEV expansion, which include the need to enable EV chargers in homes, increase consumer awareness, address upfront costs and operational limitations, and address that ZEVs are not commercially available for all categories of vehicles.

In October 2016, the Governor's Interagency Working Group on Zero-Emission Vehicles issued the *2016 ZEV Action Plan: A roadmap toward 1.5 million zero-emission vehicles on California roadways by 2025*.³⁵ This report provides an update on progress toward achieving the 2013 goals and highlights the following four top priorities for the upcoming years: 1) Raise consumer awareness and education about ZEVs; 2) Ensure ZEVs are accessible to a broad range of Californians; 3) Make ZEV technologies commercially viable in targeted applications in the medium-duty, heavy-duty, and freight sectors; and 4) Aid ZEV market growth beyond California. The broad goals to advance ZEV adoption are: i) achieve mainstream consumer awareness of ZEV options and benefits; ii) make ZEVs an affordable and attractive option for drivers; iii) ensure convenient charging and fueling infrastructure for greatly expanded use of ZEVs; iv) maximize economic and job opportunities from ZEV technologies; v) bolster ZEV market growth outside of California; and vi) lead by example by integrating ZEVs into State government. The goals and strategies proposed in the 2013 Action Plan will continue to be implemented; however, additional strategies are proposed to help achieve the new goals, including setting targets to increase home charging stations in multiunit dwellings and disadvantaged communities and for public transit and school bus electrification. The 2016 Action Plan describes challenges toward achieving the 2025 goal of 1.5 million ZEVs in California, such as that most consumers are still not aware of the benefits of passenger ZEVs and that over 1,000,000 charge points will be needed at homes, workplaces, and public locations but only 11,000 non-home charge points are installed as stated in the 2016 ZEV Action Plan.

In September 2018, the Governor's Interagency Working Group on Zero-emission Vehicles published the 2018 ZEV Action Plan Priorities Update.³⁶ This update is the result of Governor Brown's directive to update the 2016 Zero-Emission Vehicle Action Plan to help expand private investment in zero-emission vehicle infrastructure, particularly in low income and disadvantaged communities. The 2018 Priorities Update serves three fundamental purposes: 1) Provide direction to state agencies on the most important actions to be executed in 2018 to enable progress toward the 2025 targets and 2030 Vision; 2) Give stakeholders transparency into the actions state agencies plan to take (or are taking) this year to further the ZEV market; and 3) Create a platform for stakeholder engagement, feedback, and collaboration. As of July 2018, over 410,000 ZEVs have been sold in California, which is approximately 150,000 ZEVs since the publication of the 2016 Action Plan in October 2016.

³⁵ Governor's Interagency Working Group on Zero-emission Vehicles. 2016. Available at: https://www.ca.gov/archive/gov39/wp-content/uploads/2018/01/2016_ZEV_Action_Plan-1.pdf. Accessed: February 2025.

³⁶ Governor's Interagency Working Group on Zero-emission Vehicles. 2018. Available at: <https://static.business.ca.gov/wp-content/uploads/2019/12/2018-ZEV-Action-Plan-Priorities-Update.pdf>. Accessed: February 2025

In July 2020, CARB prepared an Assessment of CARB's ZEVs Programs Per Senate Bill 498. In this report, CARB staff reviews its programs that affect the adoption of light, medium, and heavy-duty ZEVs, including identifying each program's goals and status in meeting those goals, performing a cost-benefit analysis where data are available, and comparing CARB's ZEV programs with those of other jurisdictions. Additionally, pursuant to SB 498, CARB provides policy recommendations for increasing the use of ZEVs in the State, as well as recommendations for vehicle fleet operators to increase the use of ZEVs.³⁷

The California Zero-Emission Vehicle Market Development Strategy was published in February 2021.³⁸ This strategy was prepared to meet the targets identified by Governor Newsom in EO N-79-20, which include the following zero-emission vehicle targets for California:

- 100% of in-state sales of new passenger cars and light-duty trucks will be zero-emission by 2035,
- 100% zero-emission medium and heavy-duty vehicles in the state by 2045 where feasible and by 2035 for drayage trucks, and
- 100% zero-emission off-road vehicles and equipment operations by 2035, where feasible.

A document prioritizing near-term actions for the next year was prepared in August 2021 called the ZEV Pillar Priorities.³⁹ This annual implementation document identifies the near-term actions to create market opportunity, remove barriers, and further collective understanding.

In June 2020, CARB approved the Advanced Clean Trucks regulation, which has requirements for manufacturer ZEV sales and a one-time reporting requirement for large entities and fleets.⁴⁰ The Advanced Clean Truck Regulation is part of a holistic approach to accelerate a large-scale transition of zero-emission medium and heavy-duty vehicles from Class 2b to Class 8. Manufacturers who certify Class 2b-8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales need to be 55% of Class 2b – 3 truck sales, 75% of Class 4 – 8 straight truck sales, and 40% of truck tractor sales. Large employers including retailers, manufacturers, brokers, and others are required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, are required to report about their existing fleet operations. This information helps to identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

³⁷ CARB. 2020. Assessment of CARB's Zero-Emission Vehicles Programs Per Senate Bill 498. Available at: <https://ww2.arb.ca.gov/sites/default/files/2019-12/SB%20498%20Report%20Draft%20121719.pdf>. Accessed: February 2025.

³⁸ CARB. 2021. California Zero-Emission Vehicle Market Development Strategy. Available at: https://static.business.ca.gov/wp-content/uploads/2021/02/ZEV_Strategy_Feb2021.pdf. Accessed: February 2025.

³⁹ CARB. 2021. ZEV Pillar Priorities. Available at: <https://static.business.ca.gov/wp-content/uploads/2021/08/ZEVPillarPriority.pdf>. Accessed: February 2025.

⁴⁰ CARB. 2020. Advanced Clean Trucks. Available at: <https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks>. Accessed: February 2025.

California is incentivizing the purchase of ZEVs through implementation of the Clean Vehicle Rebate Project (CVRP), which is administered by a non-profit organization (The Center for Sustainable Energy) for CARB and currently subsidizes the purchase of passenger near-zero and ZEVs as follows:

- Hydrogen Fuel Cell EVs: \$5,000;
 - Battery EVs: \$2,500;
 - Plug-In Hybrid EVs: \$1,500; and
 - Neighborhood Electric Vehicles and Zero-Emission Motorcycles: \$900.

In March 2017, CARB received Volkswagen's (VW) first 30-month ZEV Investment Plan (Plan).⁴¹ This Plan is required by California's partial settlement with VW resulting from VW's use of illegal devices in its 2.0-liter (2.0L) diesel cars sold in the State from model years 2009 to 2015. The Plan describes how VW is proposing to spend the first \$200 million in California on ZEV charging infrastructure (including the development and maintenance of ZEV charging stations), public awareness, increasing ZEV access, and a green city demonstration. In June 2017, Electrify America (a subsidiary of VW) provided CARB with additional information on the Plan.⁴² CARB approved the first of the four plans in July 2017.⁴³

In its 2014 First Update, CARB recognized that the light-duty vehicle fleet "will need to become largely electrified by 2050 in order to meet California's emission reduction goals."⁴⁴ Accordingly, CARB's ACC program – summarized above – requires about 15 percent of new cars sold in California in 2025 to be a plug-in hybrid, battery electric or fuel cell vehicle.⁴⁵

Other state-wide and regional initiatives that spur ZEV uptake include the following:

- CARB currently subsidizes the purchase of passenger near-zero and zero-emission vehicles and provides access to high-occupancy vehicle (HOV) lanes to ZEV drivers.
- The VW settlement will result in \$800 million in ZEV projects in California over the next ten years, with a focus on increasing public awareness and infrastructure in the first funding cycle.⁴⁶
- The CalGreen standards require new residential and non-residential construction to be pre-wired to facilitate the future installation and use of EV chargers (see Section 4.106.4 and Section 5.106.5.3 of 2016 CalGreen standards for the residential and non-residential pre-wiring requirements, respectively).

⁴¹ VOLKSWAGEN, Group of America. 2017. California ZEV Investment Plan: Cycle 1, March 8, 2017. Available at: <https://www.electrifyamerica.com/assets/pdf/California%20ZEV%20Investment%20Plan%20Cycle%201.3bc672a3.pdf>. Accessed: February 2025.

⁴² Electrify America. 2017. Supplement to the California ZEV Investment Plan, Cycle 1, June 29, 2017. Available at: <https://www.electrifyamerica.com/assets/pdf/Cycle%201%20CA%20ZEV%20Invest%20Plan%20Supplement.a92e7705.pdf>. Accessed: February 2025.

⁴³ CARB, 2017. CARB Approves \$200 Million VW Zero-Emission Vehicle Investment in California, July, 27. Available at: <https://www2.arb.ca.gov/news/carb-approves-200-million-vw-zero-emission-vehicle-investment-california>. Accessed: February 2025.

⁴⁴ CARB, First Update to the Climate Change Scoping Plan: Building on the Framework (May 2014), p. 48.

⁴⁵ Id. at p. 47.

⁴⁶ CARB, Volkswagen Settlement – California ZEV Investments webpage, available at: https://www.arb.ca.gov/msprog/vw_info/vsi/vw-zevinvest/vw-zevinvest.htm. Accessed: February 2025.

In January 2017, three of California's largest utilities submitted proposals to the California Public Utilities Commission (CPUC) to electrify the State's transportation sector through more than \$1 billion in investments:

- Southern California Edison (SCE) filed an application to expand electric transportation in its service area. Some of SCE's proposals include monetary rewards to rideshare drivers who use an EV, additional fast charge infrastructure at targeted locations within the region, and rates that are designed to incentivize EV adoption.⁴⁷
- PG&E submitted an application that aims to expand the electrification of medium- and heavy-duty vehicle fleets, expand fast-charging stations that can refuel EVs in 20-30 minutes, and explore new uses for vehicle electrification.⁴⁸
- San Diego Gas & Electric (SDG&E) submitted an application to install tens of thousands of charging stations in its service area to boost the transition to ZEVs, trucks, shuttles, and delivery fleets.⁴⁹

On September 23, 2020, California Governor Gavin Newsom issued EO N-79-20, which entails the following actions:

- All new passenger vehicles sold in California be zero-emission by 2035.
- All medium- and heavy-duty vehicles be zero-emission where feasible by 2045.
- All off-road vehicles and equipment be zero-emission where feasible by 2035.

Governor Newsom ordered extensive interagency efforts to support the EO, including evaluations of technological feasibility and cost effectiveness, expansion of EV charging options and affordable fueling, as well as identification of near-term strategies to increase zero-emission public transportation options.

The EO was generally aimed at transitioning away from fossil fuel dependence in the State, with emphasis on transportation initiatives. However, Governor Newsom addressed efforts to repurpose oil production facilities and extraction sites while continuing the State's existing goals to reduce the carbon intensity of fuels.⁵⁰

⁴⁷ SCE, Application of Southern California Edison Company (U 338-E) for Approval of Its 2017 Transportation Electrification Proposals (January 20, 2017).

⁴⁸ PG&E, In the Matter of the Application of Pacific Gas and Electric Company for Approval of its Senate Bill 350 Transportation Electrification Program (January 20, 2017).

⁴⁹ SDG&E, Application of San Diego Gas & Electric Company (U902E) for Approval of SB 350 Transportation Electrification Proposals (January 20, 2017).

⁵⁰ State of California. 2020. Executive Order N-79-20. Available at: <https://www.gov.ca.gov/wp-content/uploads/2020/09/9.23.20-EO-N-79-20-Climate.pdf>. Accessed: February 2025.

3. SIGNIFICANCE THRESHOLDS

The analysis provided in this report evaluates the significance of the Project's energy by reference to the following questions from Section VI, Energy, of Appendix G of the CEQA Guidelines:

Threshold 1. Would the Project result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

Threshold 2. Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

While no quantitative thresholds related to energy are included in the CEQA Guidelines, Part I of Appendix F of the CEQA Guidelines states as follows:

"The goal of conserving energy implies the wise and efficient use of energy. The means of achieving this goal include:

1. decreasing overall per capita energy consumption,
2. decreasing reliance on fossil fuels such as coal, natural gas and oil, and
3. increasing reliance on renewable energy resources."

Appendix F of the CEQA Guidelines states that an Environmental Impact Report (EIR) should include a discussion of the potential energy impacts of a project, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

For purposes of this analysis, impacts to energy resources will be considered to be significant if the Project would result in the wasteful, inefficient or unnecessary consumption of fuel or energy, and conversely if the Project would not incorporate renewable energy or energy efficiency measures into building design, equipment use, transportation or other Project features.

To determine whether a project would result in the wasteful, inefficient or unnecessary consumption of fuel or energy, and conversely whether the Project would fail to incorporate renewable energy or energy efficiency measures into building design, equipment use, transportation or other project features, Appendix F of the CEQA Guidelines identifies six categories of potential energy-related environmental impacts:

1. The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate the energy intensiveness of materials may be discussed.
2. The effects of the project on local and regional energy supplies and on requirements for additional capacity.
3. The effects of the project on peak and base period demands for electricity and other forms of energy.
4. The degree to which the project complies with existing energy standards.
5. The effects of the project on energy resources.
6. The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

This report, relative to Threshold 1, assesses the Project's electricity, natural gas, and fossil fuel consumption during construction and operation by way of the six questions above. This report, relative to Threshold 2, evaluates the Project for consistency with applicable plans related to renewable energy and energy efficiency (see **Appendix B, Table B-1**: State Plan-Level Consistency Analysis and **Appendix B, Table B-2** and **Table B-3**: Local Plan-Level Consistency Analysis). The Local Plan-Level Consistency Analysis is based on San Joaquin Council of Government's Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS)⁵¹ and the applicable San Joaquin County General Plan⁵² policies and objectives.

⁵¹ San Joaquin Council of Governments. 2022. Regional Transportation Plan/Sustainable Communities Strategy. Available at: <https://www.sjcog.org/275/RTP-Sustainable-Communities-Strategy>. Accessed: February 2025.

⁵² San Joaquin County. County Wide General Plan 2035. Available here: <https://www.sjgov.org/commdev/cgi-bin/cdyn.exe?grp=planning&htm=gp2035>. Accessed: February 2025.

4. METHODOLOGY FOR DEVELOPMENT OF ENERGY PROJECTIONS

This section describes the methodology that Ramboll used to develop the regulatory compliance-based energy projections associated with the Project, which include one-time demand from construction and annual operational demand. This section also identifies the results of the energy projections for the Project based on compliance with applicable regulatory requirements.

Additional information regarding methodology can be found in the **Greenhouse Gas Emissions Technical Report** and **Air Quality Technical Report** for the Project; the methodology specific to energy usage is discussed in this report.

4.1 Construction Equipment & Activities

Construction of the Project requires the use of transportation fuel, including gasoline, diesel, and natural gas use in construction equipment, delivery via vendor trucks, and construction worker vehicles. Fuel consumed by construction equipment would be the primary energy resource expended over the course of construction, while VMT associated with the transportation of construction materials and construction worker commutes would also result in fuel consumption. Heavy-duty construction equipment associated with construction activities would use diesel fuel. Construction workers would travel to and from the Project site throughout the duration of construction (Project construction is planned to begin in 2026, with Full Buildout expected in 2057.); this analysis assumed that construction workers would primarily use gasoline-powered passenger vehicles.

Heavy-duty construction equipment of various types would be used during each phase of construction. CalEEMod® was used to estimate construction equipment usage, and results are included in **Appendix A**. Fuel consumption from construction equipment was estimated by converting the total carbon dioxide (CO₂) emissions from each construction phase to gallons using conversion factors for CO₂ to gallons of diesel. The estimated diesel fuel usage from off-road construction sources, which totals 2,413,472 gallons of diesel over the course of the Project construction period, is shown in **Table 4-1**.

Fuel consumption from worker, vendor, and hauling trips are estimated by converting the total CO₂ emissions from each construction phase to gallons using conversion factors for CO₂ to gallons of gasoline, diesel, or natural gas. Worker vehicles are assumed to include light-duty automobiles and trucks, vendor vehicles are assumed to include an equal mix of medium heavy-duty trucks and heavy heavy-duty trucks, and hauling vehicles are assumed to include heavy heavy-duty trucks. Estimated fuel usage, which totals 12,041,969 gallons of gasoline, 8,798,913 gallons of diesel, and 334,903 gallons of natural gas over the course of the Project construction period, is shown in **Table 4-2**.

4.2 Operational Energy Requirements

Energy requirements are evaluated for Initial Phase buildout (2032) and Full Buildout (2057). In the absence of data available for 2051-2056, data for 2050 was substituted. Please note that this is a conservative approach since it is expected that energy requirements would become more stringent over time due to regulations likely becoming more stringent in the future.

4.2.1 Electricity

Operation of the Project will result in electricity demand for the Project land uses. The annual electricity usage for each land use is presented in **Table 4-3**. The total electricity use for the Project incorporates 2019 Title 24 standards. Estimates for the Project are conservative because they assume the Project would be built to the 2019 Title 24, Part 6 standards, even though subsequent, more energy-efficient iterations of the code would apply for buildings built at a later time.

4.2.2 Natural Gas

The Project will require natural gas, mainly for building heating and hot water. Natural gas is estimated using CalEEMod® defaults based on averages for the electricity demand forecast zone for each land use. The annual natural gas usage for each land use is presented in **Table 4-4**. Estimates for the Project are conservative because they assume the Project would be built to the 2019 Title 24, Part 6 standards, even though subsequent, more energy-efficient iterations of the code would apply for buildings built at a later time.

4.2.3 Fuel Usage

4.2.3.1 Gasoline

Gasoline fuel consumption for Project operation is shown in **Table 4-5**. Operational gasoline fuel usage occurs due to gasoline-powered vehicle trips when traveling to Project land uses and is calculated based on gasoline-powered vehicle VMT. The development of the VMT is described in detail in the **Greenhouse Gas Emissions Technical Report** and **Air Quality Technical Report**. Gasoline fuel consumption for the Project is calculated by dividing total gasoline-powered VMT by average fuel efficiency of gasoline vehicles in San Joaquin County from the EMFAC2021 database for calendar year 2032 and 2050 for the Initial Phase and Full Buildout, respectively.

4.2.3.2 Diesel

Diesel fuel consumption for Project operation is shown in **Table 4-6**. Operational diesel fuel usage occurs due to transportation refrigeration unit trips, diesel vehicle trips, diesel generator use for the wastewater treatment plant, forklift, and yard truck usage.

Fuel consumption for vehicles is based on total VMT, which is described in detail in the **Greenhouse Gas Emissions Technical Report** and **Air Quality Technical Report**. Diesel fuel consumption for the Project is calculated by dividing total diesel-powered VMT by the average fuel efficiency of diesel vehicles in San Joaquin County from the EMFAC2021 database for calendar year 2032 and 2050 for the Initial Phase and Full Buildout, respectively.

For the off-road equipment (forklift and yard truck) the annual diesel-related activity is based on Project-specific information detailed in the **Air Quality Technical Report**. Diesel fuel consumption for the Project is calculated by multiplying the annual hours of usage by

the fuel consumption rate (gallons/hour). The fuel consumption rate is derived from the OFFROAD2021 database for calendar year 2032 and 2050 for the Initial Phase and Full Buildout, respectively.

The diesel generator emissions are based on annual usage and fuel consumption rate, which are detailed in the **Air Quality Technical Report**.

4.2.3.3 Electricity

Electricity consumption from EVs and plug-in hybrid electric vehicles (PHEVs) for Project operation is shown in **Table 4-7**. Operational transportation-related electricity usage occurs due to vehicle trips when traveling to Project land uses and is calculated based on EV VMT. The development of the VMT is described in detail in the **Greenhouse Gas Emissions Technical Report** and **Air Quality Technical Report**. Electricity consumption for the Project is calculated by dividing total electric-powered VMT by the average energy efficiency of EVs and PHEVs in San Joaquin County from the EMFAC2021 database for calendar year 2032 and 2050 for the Initial Phase and Full Buildout, respectively.

4.2.3.4 Natural Gas

Natural gas fuel consumption for Project operation is shown in **Table 4-8**. Operational natural gas fuel usage occurs due to natural gas vehicle trips to the site.

Fuel consumption is based on total VMT, which described in detail in the **Greenhouse Gas Emissions Technical Report** and **Air Quality Technical Report**. Natural gas fuel consumption for the Project is calculated by dividing total natural gas-powered VMT by the average fuel efficiency of natural gas vehicles in San Joaquin County from the EMFAC2021 database for calendar year 2032 and 2050 for the Initial Phase and Full Buildout, respectively.

5. MITIGATION MEASURES

The following mitigation measures would reduce emissions associated with the proposed project.

5.1 Description of Mitigation Measures

As described in **Section 1.3** of this report, the Project will include a number of mitigation measures intended to reduce Project impacts. Quantification of energy impacts associated with these measures are described as follows.

5.1.1 MM-Energy-1 (Solar PV)

The proposed project is incorporating solar PV panels for “Base Building” energy needs for limited industrial zoned buildings. This measure was assessed based on the amount of electricity required to cover warehouse-related Title 24 electricity consumption. Additional forklift charging anticipated as part of the mitigation measures is assumed to be supplemented by solar PV and thus was not incorporated into Project electricity consumption table.

5.1.2 MM-Energy-2 (ZE Equipment)

The Project will utilize various zero-emission equipment. This includes forklift equipment and yard mules used at all industrial warehouse buildings greater than 300,000 square feet (22,993,500 square feet total). A reduced fuel consumption associated with this measure was assessed based on the difference in emissions when comparing forklift and yard mule combustion emissions at warehouses less than 300,000 square feet and similar emissions at all warehouse land uses.

Additionally, all landscape equipment used to maintain individual building projects (24,675,000 square feet total) and Pacific Gateway master landscaping, parks and open space will be required to be zero-emission. This aligns with mitigation measure LL-1 in CalEEMod®. Note that CalEEMod® does not assess fuel consumption associated with landscaping equipment, thus, this measure was not quantitatively incorporated into this energy assessment.

6. PROJECT INVENTORY IN CONTEXT

This section assesses the significance of the Project's energy demand for purposes of CEQA. Project impacts – i.e., energy use beyond existing Baseline conditions – are assessed against the thresholds.

6.1 Threshold 1

Would the Project Result in a Potentially Significant Environmental Impact Due to Wasteful, Inefficient, or Unnecessary Consumption of Energy Resources, during Project Construction or Operation?

6.1.1 Energy Requirements and Energy Use Efficiencies

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The project's energy requirements and its energy use efficiencies by amount and fuel type for each stage of the project including construction, operation, maintenance and/or removal. If appropriate the energy intensiveness of materials may be discussed.

6.1.1.1 Construction

Construction of the proposed project would result in fuel usage as shown in **Table 6-1**. There are no unusual project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities, or equipment that would not conform to current emissions standards (and related fuel efficiencies).

6.1.1.2 Operations

Operation of the Project would result in electricity, natural gas, gasoline, and diesel fuel usage. Operational electricity and diesel consumption was assessed with the incorporation of mitigation measures as described in **Section 5**, as shown in **Table 6-2** and **Table 6-3**. A summary of operational energy consumption, which incorporates these mitigation measures, are shown in **Table 6-4**. There are no unusual project characteristics that would require consumption that would be more energy intensive than is used for comparable activities, or equipment that would not conform to current emissions standards (and related fuel efficiencies).

Over the lifetime of the Project, the fuel efficiency of the vehicles being used for Project operation is expected to improve. The amount of fuel consumption from vehicular trips to and from the Project site during operation would correspondingly decrease over time as vehicles become more efficient and an increasing number of EVs penetrate the California fleet mix. Numerous regulations have been adopted that encourage, and require, increased fuel efficiency. For example, CARB has adopted an approach to passenger vehicles that combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of standards. The approach also includes efforts to support and accelerate the numbers of plug-in hybrids and zero-emissions vehicles in California. As such, operation of the Project is expected to use decreasing amounts of fuel over time, due to advances in fuel economy.

6.1.2 Local and Regional Energy Supplies

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on local and regional energy supplies and on requirements for additional capacity.

6.1.2.1 Construction

The Project's fuel consumption during construction is discussed in **Section 4.1**. Fuel consumption was estimated using EMFAC2021 and OFFROAD2021 databases for San Joaquin County and the State based on the maximum annual year of fuel consumption during construction. Relative to total electricity and fuel comparison countywide, Project construction would use approximately 0.26% of gasoline, 0.47% of diesel fuel, and 0.61% of natural gas over the duration of construction (**Table 6-1**). In comparison to state-wide usage, construction of the Project would equate to approximately 0.005% of gasoline usage and 0.01% of diesel fuel usage (**Table 6-1**). Therefore, fuel use during construction would be temporary and negligible.

6.1.2.2 Operations

Electricity

The Project's electricity demand during operation is discussed in **Section 4.2.1**. For comparison, based on 2022 consumption, operation of the Initial Phase of the Project would equate to 1.2% of the total electricity demand countywide and 0.02% of the total electricity demand state-wide (**Table 6-4**). For Full Buildout, these numbers increase to 8% of the total electricity demand countywide and 0.16% of the total electricity demand state-wide (**Table 6-4**). Please note that utilizing the latest values from 2022 is a conservative approach since it is expected that energy usage would decrease over time due to regulations likely becoming more stringent in the future. Therefore, the Project is not expected to have an impact on the local utility.

In 2022, total in-state electricity consumption was 287,826 GWh.⁵³ The Project's anticipated Full Buildout electricity usage of 477,666,888 kWh/year is approximately 0.17% of the state-wide demand in 2022 as noted in **Table 6-4**. Given that the state is growing annually, the anticipated state-wide energy demand for the Project Operational buildout years of 2032 and 2050 will likely be greater than that in 2022, and thus the Project's relative percentage contribution to the state-wide energy demand would be even less.

Overall, the Project's projected electricity demand is consistent with, and a small percentage of, state and regional projections. Therefore, the Project will not require additional generation capacity beyond more general state-wide expansion.

Natural Gas

The Project's natural gas demand during operation is described in **Section 4.2.2**. For comparison, based on 2022 consumption, operation of the Initial Buildout of the Project would equate to 0.68% of the total natural gas demand countywide and 0.01% of the total natural gas demand state-wide (**Table 6-4**). For Full Buildout, these numbers increase to

⁵³ California Energy Commission. 2022. Electricity consumption by county. Available at: <https://ecdms.energy.ca.gov/electbycounty.aspx> Accessed: February 2025.

4.4% of the total natural gas demand countywide and 0.07% of the total natural gas demand state-wide (**Table 6-4**).

Overall, the Project's natural gas consumption is a small percentage of state and regional consumption. Therefore, the Project is not expected to have an impact on the local natural gas resources.

Gasoline

The Project's fuel usage during operation is discussed in **Section 4.2.3**. As discussed in **Section 4.2.3.1**, Project gasoline consumption due to mobile VMT for the Initial Buildout is approximately 2,104,642 gallons/year for Initial Phase buildout, which is 0.8% of the gasoline that would be used countywide in and 0.016% of the gasoline used state-wide in 2032. For Full Buildout, this increases to 10,637,735 gallons/year, which is 4.1% of the gasoline that would be used countywide in and 0.09% of the gasoline used state-wide in 2050 (latest year that EMFAC2021 and OFFROAD2021 data is available).

Diesel

The Project's fuel usage during operation is discussed in **Section 4.2.4**. As discussed in **Section 4.2.3.1**, Project diesel consumption is approximately 4,024,425 gallons/year for Initial Phase buildout, which is 2.9% of the diesel that would be used countywide in and 0.08% of the diesel used state-wide in 2032. For Full Buildout, this increases to 21,539,745 gallons/year, which is 13.8% of the diesel that would be used countywide in and 0.37% of the gasoline used state-wide in 2050 (latest year that EMFAC2021 and OFFROAD2021 data is available). Please note that it is expected that diesel usage would decrease over time due to regulations likely becoming more stringent in the future, and increased penetration of zero-emission technologies.

6.1.2.3 Summary

The Project will not have a substantial impact on the local or regional energy supplies or require additional capacity to be constructed. The Project's impacts are less than significant.

6.1.3 Peak and Base Period Demands

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on peak and base period demands for electricity and other forms of energy.

6.1.3.1 Construction

The Project's base energy consumption compared to regional and state-wide energy consumption is discussed above in **Section 6.1.2**. The electricity demand associated with construction of the Project will be supplied by existing on-site power poles when available. In the event of an emergency or during a power outage, the use of generator sets is permissible, which are comprised of a generator and diesel engine used to produce power off-grid. Therefore, relatively negligible impacts to energy demand are expected as a result of construction activities.

6.1.3.2 Operation

The Project operation will not have a substantial impact on the peak and base period demands for electricity or other forms of energy. The Project's base energy consumption compared to regional and state-wide energy consumption is discussed above in **Section 6.1.2**. Further details and reasoning on the peak demand are described below.

In 2021, California's peak grid demand was 43,982 MW (megawatt). On September 8, PG&E reached a maximum demand of 20,118 MW.⁵⁴ While PG&E data was not available for 2023, the 2023 California's peak grid demand was similar to 2021 demand at 44,534 MW.⁵⁵ In comparison, the Project's maximum demand is expected to be approximately 80 MW in 2057. Thus, the Project will have a relatively negligible effect on state-wide and PG&E peak demands.

6.1.3.3 Summary

As described above, the Project will not have a substantial impact on peak and base period demands for electricity and other forms of energy. The Project's impacts are less than significant.

6.1.4 Existing Energy Standards

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The degree to which the project complies with existing energy standards.

6.1.4.1 Construction

Project construction requires use of on-road trucks for soil hauling and deliveries, and off-road equipment such as excavators, tractors/loaders/backhoes, forklifts, and graders. The construction activities would comply with state requirements designed to minimize idling and associated emissions, which also minimizes use of fuel. Specifically, idling of commercial vehicles and off-road equipment would be limited to five minutes in accordance with the Commercial Motor Vehicle Idling Regulation and the Off-Road Regulation, and the trucks used would be compliant with the requirements of the Tractor-Trailer Greenhouse Gas Regulation.

6.1.4.2 Operation

Electricity

The Project's anticipated electricity use is discussed in **Section 4.2.1**.

The electricity demand estimate for the Project incorporates the 2019 Title 24 standards, based on CalEEMod® defaults. However, the Project will comply with the latest Title 24 Standards at the time of opening, which will be more stringent than the 2019 Title 24 standards.

⁵⁴ California ISO. 2021. 2020-2021 Transmission Plan. Available online at: <https://stakeholdercenter.caiso.com/initiativedocuments/reviseddraft-2021-2022transmissionplan.pdf>. Accessed: February 2025.

⁵⁵ California ISO. 2023. 2023 Statistics. Available online at: <https://www.caiso.com/documents/2023statistics.pdf>. Accessed: February 2025.

Natural Gas

The Project's anticipated natural gas use is discussed in **Section 4.2.2**.

The natural gas demand for the Project is estimated in accordance with the Title 24 standards. For this analysis, the Project is assumed to meet 2019 Title 24 standards, based on CalEEMod® defaults. However, the Project will comply with the latest Title 24 Standards at the time of opening, which will be more stringent than the 2019 Title 24 standards.

Fuel Usage

The Project's anticipated fuel use is discussed in **Section 4.2.3**. There are no unusual project characteristics that would require the use of gasoline and diesel that would be more energy intensive than is used for comparable activities, or equipment that would not conform to current emissions standards (and related fuel efficiencies).

6.1.4.3 Summary

As described above, the Project will comply with all applicable energy standards, many of which are growing stronger over time, with the foreseeable result that the Project's energy-related GHG emissions will be reduced over time as California's electricity-generating system moves away from natural gas to renewable sources such as solar power and as passenger vehicles and trucks are increasing are powered by electric batteries rather than gasoline and diesel fuel. Further, the Project has incorporated several mitigation measures to reduce Project-related energy consumption and encourage the transition to renewable resources. Thus, in consideration of these factors, the Project's impacts are **less than significant**.

6.1.5 Energy Resources

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The effects of the project on energy resources.

The Project's energy use is discussed in **Section 4** above, including electricity, natural gas, gasoline, and diesel consumption associated with on-site equipment, mobile operations, and construction activities. The Project's use of energy will not have a substantial effect on state-wide or regional energy resources. Total operational energy use requirements for the Project are summarized in **Table 6-4**. Programs and measures relevant to energy resources are discussed in detail above.

The Project will not significantly impact energy resources and the Project's impacts are less than significant.

6.1.6 Transportation Energy Use

This section addresses the following category of environmental impact described in Appendix F of the CEQA Guidelines:

The project's projected transportation energy use requirements and its overall use of efficient transportation alternatives.

Conventional gasoline and diesel vehicles consume gasoline or diesel fuel, whereas EVs consume electricity that can be sourced by fossil fuels or renewables. EVs, including battery-electric vehicles and PHEVs, comprise a growing fraction of the passenger vehicles on the roads in California. EV adoption is expected to increase over the upcoming decades

due in part to improvements in battery technology and public initiatives and goals. This increase in EV adoption will decrease the fuel requirements due to transportation.

New state-wide regulations such as Truck and Bus Rule (Title 13 CCR Section 2025), On-Road Heavy-Duty Vehicle Program (Title 13, CCR Section 1956.8), Pavley Clean Car Standards and the ACC program have been instated which reduce emissions and fuel requirements from trucks and cars.

Fuel usage for the Project shown in **Table 4-5**, **Table 4-6**, and **Table 4-8** is expected decrease over time as fleets become more fuel-efficient and switch to more EVs.

6.1.7 Summary

Based on the above analysis of each of the environmental impact factors identified in CEQA Guidelines Appendix F, the potential for the Project to result in wasteful, inefficient, or unnecessary consumption of fuel or energy, and conversely to fail to incorporate energy efficiency measures into equipment use, transportation or other project features is **less than significant**.

6.2 Threshold 2

Would the Project Conflict with or Obstruct a State or Local Plan for Renewable Energy or Energy Efficiency?

The Proposed Project would comply with any applicable state plans for renewable energy or energy efficiency to the extent required by law. Further, the Project would be consistent with the renewable energy and energy efficiency provisions of the San Joaquin County General Plan.⁵⁶ This plan is described in more detail in **Section 2.2.3** and the relevant provisions of each plan are listed in **Appendix B**. The Project has been evaluated for consistency with state plans and has been concluded to be consistent; the assessment for state plan measures is found in **Appendix B, Table B-1**. Additionally, the Project has been evaluated for consistency with the relevant provisions and has been concluded to be consistent; the assessment for individual local plan measures is found in **Appendix B, Table B-2** and **Table B-3**. As such, Project impacts are **less than significant**.

⁵⁶ San Joaquin County. 2035 San Joaquin County General Plan. Available at: <https://www.sjgov.org/commdev/cgi-bin/cdyn.exe?grp=planning&htm=gp2035>. Accessed: February 2025.

TABLES

Table 4-1. Construction Off-Road Equipment Fuel Consumption

Pacific Gateway

San Joaquin County, California

Year	CO₂ Emissions¹ (MT/yr)	Diesel Consumption² (gallons/yr)
2026	693	67,875
2027	340	33,301
2028	341	33,399
2029	340	33,301
2030	340	33,301
2031	186	18,178
2032	2,423	237,316
2033	2,000	195,886
2034	1,030	100,921
2035	1,020	99,902
2036	1,023	100,196
2037	1,020	99,902
2038	1,893	185,428
2039	1,206	118,155
2040	1,023	100,196
2041	1,020	99,902
2042	1,020	99,902
2043	1,020	99,902
2044	1,023	100,196
2045	922	90,343
2046	699	68,423
2047	1,192	116,794
2048	406	39,785
2049	340	33,301
2050	340	33,301
2051	340	33,301
2052	340	33,301
2053	340	33,301
2054	340	33,301
2055	322	31,548
2056	98	9,618

Conversions:10.21 kg CO₂/gallon diesel1,000 kg CO₂/MT CO₂Notes:¹ Offroad emissions estimated using the CalEEMod® 2022 model.Available at: www.caleemod.com. Accessed: February 2025.

² The conversion factor for diesel is 10.21 kg CO₂/gallon per The Climate Registry, 2024. Available at: https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Document_FINAL.pdf. Accessed: February 2025.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODEL

CO₂ - carbon dioxide

kg - kilograms

MT - metric ton

yr - year

Table 4-2. Construction On-Road Fuel Consumption

Pacific Gateway

San Joaquin County, California

Year	Gasoline Consumption^{1,2} (gallons/yr)	Diesel Consumption^{1,2} (gallons/yr)	Natural Gas Consumption (gallons/yr)
2026	90,984	83,424	2,955
2027	250,233	233,026	8,389
2028	245,611	228,193	8,376
2029	240,051	221,659	8,272
2030	235,551	215,378	8,188
2031	88,065	66,374	2,567
2032	62,261	50,505	1,973
2033	410,862	355,087	14,021
2034	661,989	499,140	19,745
2035	656,829	487,263	19,354
2036	650,340	475,961	18,989
2037	641,312	463,443	18,560
2038	634,517	454,212	18,126
2039	642,761	432,288	17,176
2040	608,151	425,377	16,742
2041	602,237	417,339	16,295
2042	598,585	411,368	15,857
2043	595,184	406,032	15,487
2044	594,009	402,573	15,183
2045	562,362	375,105	14,010
2046	511,621	330,128	12,229
2047	42,271	913	32
2048	315,020	210,904	7,629
2049	297,564	227,221	8,102
2050	296,916	226,274	7,960
2051	296,916	226,274	7,960
2052	296,916	226,274	7,960
2053	296,916	226,274	7,960
2054	296,916	226,274	7,960
2055	255,531	194,581	6,845
2056	63,486	49	0

Conversions:³

8.78 kg CO₂/gallon gasoline
10.21 kg CO₂/gallon diesel
4.5 kg CO₂/gallon natural gas
1,000 kg CO₂/MT CO₂

Notes:

¹ Onroad CO₂ emissions are calculated using emission factors from EMFAC2021 based on fleet wide totals, including worker, vendor, and hauling trips. Worker vehicles are assumed to include light-duty automobiles and trucks (50% LDA, 25% LDT1, 25% LDT2). Vendor vehicles are assumed to include medium heavy-duty trucks and heavy heavy-duty trucks (50% MHDT, 50% HHDT). Hauling vehicles are assumed to include heavy heavy-duty trucks (100% HHDT). Onroad CO₂ emissions can be referenced in the CalEEMod[®] output.

² CO₂ emissions for worker, vendor, and hauling trips were split based on gasoline, diesel, or natural gas fuel consumption. The fuel consumption breakdown was derived using fuel consumption in San Joaquin County using EMFAC2021.

³ The conversion factors for gasoline, diesel, and natural gas are 8.78 kg CO₂/gallon, 10.21 kg CO₂/gallon, and 4.5 kg CO₂/gallon, respectively, per The Climate Registry, 2023. Available at: <https://theclimateregistry.org/wp-content/uploads/2023/06/2023-Default-Emission-Factors-Final.pdf>. Accessed: February 2025.

Abbreviations:CalEEMod[®] - CALifornia Emissions Estimator MODELCO₂ - carbon dioxide

EMFAC - EMISSION FACTORS model

kg - kilograms

HHDT - heavy heavy-duty trucks

LDA - light-duty automobile

LDT - light-duty truck

MHDT - medium heavy-duty trucks

MT - metric ton

yr - year

Table 4-3. Unmitigated Operational Electricity Consumption

Pacific Gateway

San Joaquin County, California

Land Use	Electricity Demand (kWh/yr)¹
Initial Phase	
General Office Building	240,687
Other Non-Asphalt Surfaces	0
Parking Lot	938,701
University/College (4yr)	146,225
Industrial Park	82,922,031
Government Office Building	2,367,108
Other Asphalt Surfaces	0
City Park	0
Total	86,614,752
Full Buildout	
General Office Building	240,687
Government Office Building	2,367,108
Industrial Park	516,431,380
Parking Lot	5,887,866
City Park	0
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Office Park	1,946,428
University/College (4yr)	8,066,932
Apartments Mid Rise	7,228,498
Unenclosed Parking with Elevator	985,173
Hotel	367,683
Gasoline/Service Station	206,599
Convenience Market (24 hour)	409,734
Fast Food Restaurant with Drive Thru	546,089
High Turnover (Sit Down Restaurant)	562,151
Fast Food Restaurant w/o Drive Thru	160,614
Bank (with Drive-Through)	51,650
Strip Mall	382,460
Total	543,521,755

Notes:¹ Project electricity demand is obtained from CalEEMod[®] outputs.Abbreviations:CalEEMod[®] - CALifornia Emissions Estimator MODel

kWh - kilowatt hours

yr - year

Table 4-4. Operational Natural Gas Consumption

Pacific Gateway

San Joaquin County, California

Land Use	Natural Gas Demand (kBTU/yr)¹
Initial Phase	
General Office Building	331,994
Other Non-Asphalt Surfaces	0
Parking Lot	0
University/College (4yr)	877,271
Industrial Park	114,379,059
Government Office Building	3,265,086
Other Asphalt Surfaces	0
City Park	0
Total	118,853,410
Full Buildout	
General Office Building	331,994
Government Office Building	3,265,086
Industrial Park	712,343,077
Parking Lot	0
City Park	0
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Office Park	2,684,819
University/College (4yr)	48,397,263
Apartments Mid Rise	22,067,987
Unenclosed Parking with Elevator	0
Hotel	1,917,419
Gasoline/Service Station	829,172
Convenience Market (24 hour)	241,901
Fast Food Restaurant with Drive Thru	1,657,172
High Turnover (Sit Down Restaurant)	1,705,912
Fast Food Restaurant w/o Drive Thru	487,403
Bank (with Drive-Through)	207,293
Strip Mall	378,664
Total	792,078,718

Notes:¹ Project natural gas demand is obtained from CalEEMod[®] outputs.Abbreviations:CalEEMod[®] - CALifornia Emissions Estimator MODeL

kBTU - one-thousand British thermal units

yr - year

Table 4-5. Operational Gasoline Consumption

Pacific Gateway

San Joaquin County, California

Mobile Source Activity	VMT (miles/yr) ¹	Gasoline Consumption (gallons/yr) ²
Initial Phase		
Gasoline-Powered Vehicles ³	59,926,462	2,104,642
Full Buildout		
Gasoline-Powered Vehicles ³	338,335,309	10,637,735

Constants:

Average efficiency of Autos in:	Gasoline	Plug-in Hybrid ⁴
2032	28.5	26.9 miles per gallon ⁵
2050	31.9	26.8 miles per gallon ⁵
Average efficiency of Heavy-Duty Trucks in:		
2032	4.5	-- miles per gallon ⁵
2050	4.8	-- miles per gallon ⁵

Notes:

¹ Vehicle miles traveled are based VMT from Fehr & Peers and project-specific details. More information on VMT can be found in the Air Quality and Greenhouse Gas Technical Reports.

² Gasoline consumption is calculated by assuming an average fuel efficiency and the reported VMT. The portion of the VMT that is gasoline vehicles is determined using the project-specific fleet mix.

³ Please note that gasoline-powered vehicles includes both gasoline vehicles and plug-in hybrid vehicles.

⁴ Please note that EMFAC assumes zero plug-in hybrid Heavy-Duty Trucks (HHDT) in 2032 and 2050.

⁵ The average fuel efficiency is obtained from EMFAC2021 for San Joaquin County based on the fuel consumption and vehicle miles traveled for the years 2032 and 2050. Fuel consumption and vehicles miles traveled data was not available for calendar year 2057 (buildout), thus the latest data year available was used.

Abbreviations:

EMFAC - Emission FACTors model

HHDT - heavy heavy-duty truck

VMT - vehicle miles traveled

yr - year

Table 4-6. Unmitigated Operational Diesel Consumption

Pacific Gateway
San Joaquin County, California

Mobile Source Activity	Annual Diesel Related Activity ^{1,2}	Diesel Consumption (gallons/yr) ³
Initial Phase		
Diesel Generator - Wastewater Treatment Plant (hours per year) ⁴	200	7,973
Forklift (hours per year)	1,388,285	1,485,465
Yard Truck (hours per year)	21,450	73,574
Transportation Refrigeration Units (hours per year) ¹	113,115	83,705
Diesel Vehicles (VMT per year) ²	27,070,021	3,868,761
Full Buildout		
Diesel Generator - Wastewater Treatment Plant (hours per year) ⁴	200	7,973
Forklift (hours per year)	8,646,120	8,991,965
Yard Truck (hours per year)	130,130	451,551
Transportation Refrigeration Units (hours per year) ¹	712,208	527,034
Diesel Vehicles (VMT per year) ²	154,940,920	20,357,239

Constants:

Average efficiency of Autos in:

2032	16.9 miles per gallon ⁵
2050	18.9 miles per gallon ⁵

Average efficiency of Heavy-Duty Trucks in:

2032	6.8 miles per gallon ⁵
2050	7.5 miles per gallon ⁵

Forklift fuel consumption rate in:

2032	1.07 gallons per hour ⁶
2050	1.04 gallons per hour ⁶

Yard Truck fuel consumption rate in:

2032	3.43 gallons per hour ⁷
2050	3.47 gallons per hour ⁷

TRU fuel consumption rate in:

2032	0.74 gallons per hour ⁸
2050	0.74 gallons per hour ⁸

Notes:

¹ TRU Cycle Duration is based on 2 hours of off-site loading time, 2 hours of on-site unloading time, and the duration of the on-site and off-site transit. Assumptions based on Table II.G.1 of CARB Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: February 2025.

² Diesel vehicle miles traveled are based on VMT from Fehr & Peers and project-specific details. More information on VMT can be found in the Air Quality Technical Report.

³ Diesel consumption for diesel vehicles is calculated by assuming an average fuel efficiency and the reported VMT. The portion of the VMT that is from diesel vehicles is determined using the project-specific fleet mix. TRU diesel consumption is calculated based on OFFROAD2021 annual fuel consumption rate and the annual operation.

⁴ Diesel generator usage based on Project-specific information. More information on Diesel generators can be found in the Air Quality Technical Report.

⁵ The average fuel efficiency is obtained from EMFAC2021 for San Joaquin County based on the fuel consumption and vehicle miles traveled for the 2032 and 2050.

⁶ Forklift fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Industrial - Forklifts in San Joaquin County. More information on Forklifts can be found in the Air Quality and Greenhouse Gas Technical Reports.

⁷ Yard Truck fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Industrial - Yard Goat in San Joaquin County. More information on Yard Trucks can be found in the Air Quality and Greenhouse Gas Technical Reports.

⁸ TRU fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Transportation Refrigeration Unit - Instate Trailer and Transportation Refrigeration Unit - Out-Of-State Trailer in San Joaquin County. More information on TRUs can be found in the Air Quality and Greenhouse Gas Technical Reports.

Abbreviations:

CARB - California Air Resources Board

EMFAC - Emission FACTors model

TRU - Transport Refrigeration Units

VMT - vehicle miles traveled

yr - year

Table 4-7. Operational Electricity Consumption from Vehicles

Pacific Gateway

San Joaquin County, California

Mobile Source Activity	Total VMT (miles/yr) ¹	Electricity Consumption ² (kWh/yr)
Initial Phase		
Plug-in Hybrid Electric Vehicles ³	1,068,389	323,754
Electric Vehicles	5,693,383	5,177,554
Full Buildout		
Plug-in Hybrid Electric Vehicles ³	7,322,245	2,218,862
Electric Vehicles	59,653,892	67,948,585

Constants:

Average efficiency of Autos in:	Electricity	Plug-in Hybrid ⁵
2032	2.5	3.3 mi/kWh ⁴
2050	2.3	3.3 mi/kWh ⁴
Average efficiency of Heavy-Duty Trucks in:		
2032	0.5	-- mi/kWh ⁴
2050	0.5	-- mi/kWh ⁴

Notes:

¹ Vehicle miles traveled are based on VMT from Fehr & Peers and project-specific details. More information on VMT can be found in the Air Quality Technical Report.

² Electricity consumption from electric miles driven is calculated by assuming an average energy economy and the reported VMT. The portion of the VMT that is electric-powered is determined using the project-specific fleet mix.

³ The VMT from plug-in hybrid electric vehicles accounts for electric vehicle miles traveled (eVMT).

⁴ The average fuel efficiency is obtained from EMFAC2021 for San Joaquin County based on the fuel consumption and vehicle miles traveled for the years 2032 and 2050.

⁵ Please note that EMFAC assumes zero plug-in hybrid HHDT in 2032 and 2050.

Abbreviations:

EMFAC - Emission FACtors model	mi - mile
eVMT - electric vehicle miles traveled	VMT - vehicle miles traveled
HHDT - heavy heavy-duty truck	yr - year
kWh - kilowatt-hour	

Table 4-8. Operational Natural Gas Consumption from Vehicles

Pacific Gateway

San Joaquin County, California

Mobile Source Activity	VTM (miles/yr)¹	Natural Gas Consumption (gallons/yr)²
Initial Phase		
Natural Gas Vehicles	326,645	61,631
Full Buildout		
Natural Gas Vehicles	1,443,398	253,228

Constants:³

Average efficiency of Heavy-Duty Trucks in:

2032	5.3 miles per gallon ⁴
2050	5.7 miles per gallon ⁴

Notes:

¹ Vehicle miles traveled are based on VMT from Fehr & Peers and project-specific details. More information on VMT can be found in the Air Quality Technical Report.

² Natural gas consumption is calculated by assuming an average fuel efficiency and the reported VMT. The portion of the VMT that is natural gas vehicles is determined using the project-specific fleet mix.

³ Please note that EMFAC assumes zero natural gas Autos (LDA, LDT1, LDT2, MDV, LHDT1, and LHDT2) in 2032 and 2050.

⁴ The average fuel efficiency is obtained from EMFAC2021 for San Joaquin County based on the fuel consumption and vehicle miles traveled for the years 2032 and 2050.

Abbreviations:

EMFAC - Emission FACTors model

LDA - light-duty automobiles

LDT - light-duty trucks

LHDT - light heavy-duty trucks

MDV - medium-duty vehicle

VMT - vehicle miles traveled

yr - year

Table 6-1. Construction Energy Resource Summary

Pacific Gateway

San Joaquin County, California

Energy Resource	Maximum Annual Construction Consumption ¹	Maximum Annual Construction Consumption Year ²	San Joaquin County		California	
			Annual Consumption	Project's Construction Contribution ² (%)	Annual Consumption	Project's Construction Contribution ² (%)
Gasoline (gallons) ³	661,989	2034	257,879,583	0.2567%	12,838,300,808	0.005156%
Diesel (gallons) ⁴	639,640	2038	137,244,611	0.466%	5,057,823,004	0.0126%
Natural Gas (gallons) ⁵	19,745	2034	3,238,919	0.610%	315,535,421	0.0063%

Notes:

¹ Offroad and onroad emissions are calculated using CalEEMod[®] 2022. See Tables 4-1 and 4-2 for detailed fuel consumption of the Off-Road Equipment and On-Road Vehicles categories, respectively.

² The Project's construction contribution was calculated based on the maximum annual construction energy consumption in a given construction year.

³ Gasoline data for San Joaquin County and the State of California are obtained from EMFAC2021 for the maximum annual construction consumption year.

⁴ Diesel data for San Joaquin County and the State of California are obtained from EMFAC2021 and OFFROAD2021 for the maximum annual construction consumption year.

⁵ Natural gas data for San Joaquin County and the State of California are obtained from EMFAC2021 and OFFROAD2021 for the maximum annual construction consumption year.

Abbreviations:

% - percent

CalEEMod[®] - California Emissions Estimator MODEL

EMFAC - California Air Resources Board Emissions Factor Model

Table 6-2. Mitigated Operational Electricity Consumption

Pacific Gateway

San Joaquin County, California

Land Use	Electricity Demand (kWh/yr)¹
Initial Phase	
General Office Building	481,374
Other Non-Asphalt Surfaces	0
Parking Lot	1,877,402
University/College (4yr)	292,450
Industrial Park	56,731,455
Government Office Building	4,734,216
Other Asphalt Surfaces	0
City Park	0
Total	64,116,897
Full Buildout	
General Office Building	481,374
Government Office Building	4,734,216
Industrial Park	353,318,690
Parking Lot	11,775,732
City Park	0
Other Asphalt Surfaces	0
Other Non-Asphalt Surfaces	0
Office Park	3,892,856
University/College (4yr)	16,133,864
Apartments Mid Rise	14,456,996
Unenclosed Parking with Elevator	1,970,346
Hotel	735,366
Gasoline/Service Station	413,198
Convenience Market (24 hour)	819,468
Fast Food Restaurant with Drive Thru	1,092,178
High Turnover (Sit Down Restaurant)	1,124,302
Fast Food Restaurant w/o Drive Thru	321,228
Bank (with Drive-Through)	103,300
Strip Mall	764,920
Total	407,499,440

Notes:¹ Project electricity demand is obtained from CalEEMod® outputs.² Electricity demand associated with the 'Industrial Park' land uses were adjusted to reflect the base building energy solar PV project mitigation measure, which was assumed to cover Title 24-related electricity consumption as calculated by CalEEMod®.Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODEL

kWh - kilowatt hours

PV - photovoltaic

Table 6-3. Mitigated Operational Diesel Consumption

Pacific Gateway
San Joaquin County, California

Mobile Source Activity	Annual Diesel Related Activity ^{1,2}	Diesel Consumption (gallons/yr) ³
Initial Phase		
Diesel Generator - Wastewater Treatment Plant (hours per year) ⁴	200	7,973
Forklift (hours per year)	55,217	59,082
Yard Truck (hours per year)	1,430	4,905
Transportation Refrigeration Units (hours per year) ¹	113,115	83,705
Diesel Vehicles (VMT per year) ²	27,070,021	3,868,761
Full Buildout		
Diesel Generator - Wastewater Treatment Plant (hours per year) ⁴	200	7,973
Forklift (hours per year)	589,198	612,766
Yard Truck (hours per year)	10,010	34,735
Transportation Refrigeration Units (hours per year) ¹	712,208	527,034
Diesel Vehicles (VMT per year) ²	154,940,920	20,357,239

Constants:

Average efficiency of Autos in:

2032	16.9 miles per gallon ⁵
2050	18.9 miles per gallon ⁵

Average efficiency of Heavy-Duty Trucks in:

2032	6.8 miles per gallon ⁵
2050	7.5 miles per gallon ⁵

Forklift fuel consumption rate in:

2032	1.07 gallons per hour ⁶
2050	1.04 gallons per hour ⁶

Yard Truck fuel consumption rate in:

2032	3.43 gallons per hour ⁷
2050	3.47 gallons per hour ⁷

TRU fuel consumption rate in:

2032	0.74 gallons per hour ⁸
2050	0.74 gallons per hour ⁸

Notes:

¹ TRU Cycle Duration is based on 2 hours of off-site loading time, 2 hours of on-site unloading time, and the duration of the on-site and off-site transit. Assumptions based on Table II.G.1 of CARB Proposed Amendments to the Airborne Toxic Control Measure for In-Use Diesel-Fueled Transport Refrigeration Units (TRU) and TRU Generator Sets, and Facilities Where TRUs Operate. Available at: <https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/appi.pdf>. Accessed: February 2025.

² Diesel vehicle miles traveled are based on VMT from Fehr & Peers and project-specific details. More information on VMT can be found in the Air Quality Technical Report.

³ Diesel consumption for diesel vehicles is calculated by assuming an average fuel efficiency and the reported VMT. The portion of the VMT that is from diesel vehicles is determined using the project-specific fleet mix. TRU diesel consumption is calculated based on OFFROAD2021 annual fuel consumption rate and the annual operation.

⁴ Diesel generator usage based on Project-specific information. More information on diesel generators can be found in the Air Quality Technical Report.

⁵ The average fuel efficiency is obtained from EMFAC2021 for San Joaquin County based on the fuel consumption and vehicle miles traveled for the 2032 and 2050.

⁶ Forklift fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Industrial - Forklifts in San Joaquin County. More information on forklifts and the associated project mitigation measure can be found in the Air Quality and Greenhouse Gas Technical Reports.

⁷ Yard Truck fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Industrial - Yard Goat in San Joaquin County. More information on yard trucks and the associated project mitigation measure can be found in the Air Quality and Greenhouse Gas Technical Reports.

⁸ TRU fuel consumption rate is obtained from the OFFROAD2021 emissions output for Calendar Year 2032 and 2050, Transportation Refrigeration Unit - Instate Trailer and Transportation Refrigeration Unit - Out-Of-State Trailer in San Joaquin County. More information on TRUs can be found in the Air Quality and Greenhouse Gas Technical Reports.

Abbreviations:

CARB - California Air Resources Board
EMFAC - Emission Factors' model
TRU - Transport Refrigeration Units

VMT - vehicle miles traveled
yr - year

Table 6-4. Operation Energy Resource Summary

Pacific Gateway

San Joaquin County, California

Energy Resource	Operation ¹	Year	San Joaquin County		California	
			Consumption	Project's Contribution (%) ²	Consumption	Project's Contribution (%) ²
Initial Phase						
Electricity (kWh/yr) ^{3,4}	69,618,205	2032	5,771,280,050	1.206%	287,826,110,475	0.0242%
Gasoline (gallons/yr) ⁵	2,104,642	2032	261,973,939	0.803%	13,170,284,059	0.0160%
Diesel (gallons/yr) ⁶	4,024,425	2032	137,801,642	2.92%	5,078,009,999	0.0793%
Natural Gas (kBtu/yr) ^{7,8}	127,401,649	2032	18,725,463,244	0.68%	1,170,784,235,075	0.0109%
Full Buildout						
Electricity (kWh/yr) ^{3,4}	477,666,888	2050	5,771,280,050	8.277%	287,826,110,475	0.1660%
Gasoline (gallons/yr) ⁵	10,637,735	2050	259,974,706	4.092%	12,030,439,090	0.0884%
Diesel (gallons/yr) ⁶	21,539,745	2050	155,627,341	13.84%	5,852,131,819	0.3681%
Natural Gas (kBtu/yr) ^{7,8}	827,201,409	2050	18,725,463,244	4.42%	1,170,784,235,075	0.0707%

Conversions:

99,976.1 Btu/therm
1,000 Btu/kBtu
1,000,000 kWh/GWh
1,000 kWh/MWh
139 kBtu/gallon of CNG

Notes:

- ¹ Project data are based on CalEEMod[®] output.
- ² The project's construction contribution was calculated based on the maximum annual operational energy consumption.
- ³ Electricity data for San Joaquin County in 2022 from <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>.
- ⁴ Electricity data for the State is obtained for all counties in 2022 from <http://www.ecdms.energy.ca.gov/elecbycounty.aspx>.
- ⁵ Gasoline data for San Joaquin County and the State of California are obtained from EMFAC2021 for calendar year 2032 and 2050.
- ⁶ Diesel data for San Joaquin County and the State of California are obtained from EMFAC2021 and OFFROAD2021 for calendar year 2032 and 2050.
- ⁷ Natural gas data for San Joaquin County in 2022 from <http://www.ecdms.energy.ca.gov/gasbycounty.aspx>.
- ⁸ Natural gas data for the State is obtained for all counties in 2022 from <http://www.ecdms.energy.ca.gov/gasbycounty.aspx>.

Abbreviations:

Btu - British thermal unit
CalEEMod[®] - California Emissions Estimator MODEL
CNG - compressed natural gas
EMFAC - Emission FACTors model
GWh - gigawatt hours
kWh - kilowatt hours
kBtu - kilo-British thermal unit
MWh - megawatt hours
yr - year

APPENDIX A **CalEEMod® OUTPUT**

Pacific Gateway (Initial Phase Construction) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Initial Phase Construction)
Construction Start Date	1/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	11.5	1000sqft	0.50	11,500	0.00	—	—	—

Other Non-Asphalt Surfaces	1,071	1000sqft	24.6	0.00	0.00	—	—	—	—
Parking Lot	1,039	1000sqft	24.6	0.00	34,549	—	—	—	—
University/College (4yr)	400	Student	4.00	25,000	141,239	141,239	—	—	—
Industrial Park	3,962	1000sqft	82.2	3,962,000	1,296,227	—	—	—	—
Government Office Building	113	1000sqft	2.60	113,100	0.00	—	—	—	—
Other Asphalt Surfaces	2,917	1000sqft	67.0	0.00	0.00	—	—	—	—
City Park	20.3	Acre	20.3	0.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	198	198	36.9	103	0.16	1.12	19.5	20.2	1.03	4.80	5.42	—	36,659	36,659	0.76	3.41	99.3	37,792
Mit.	73.4	73.2	30.1	105	0.16	0.38	19.5	19.9	0.37	4.80	5.17	—	36,659	36,659	0.76	3.41	99.3	37,792
% Reduced	63%	63%	18%	-2%	—	66%	—	1%	64%	—	5%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	198	198	39.4	86.2	0.16	1.24	19.8	21.0	1.14	10.1	11.3	—	35,182	35,182	0.83	3.44	2.58	—	36,232	36,232
Mit.	73.2	73.2	32.7	88.2	0.16	0.38	19.8	19.9	0.37	10.1	10.3	—	35,182	35,182	0.83	3.44	2.58	—	36,232	36,232
% Reduced	63%	63%	17%	-2%	—	70%	—	5%	68%	—	9%	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	59.0	58.8	31.2	70.8	0.14	0.84	16.7	17.2	0.78	4.50	5.27	—	29,922	29,922	0.65	2.95	32.7	—	30,850	30,850
Mit.	23.2	23.0	25.8	72.5	0.14	0.32	16.7	17.0	0.31	4.50	4.69	—	29,922	29,922	0.65	2.95	32.7	—	30,850	30,850
% Reduced	61%	61%	17%	-2%	—	62%	—	1%	60%	—	11%	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.8	10.7	5.69	12.9	0.02	0.15	3.05	3.14	0.14	0.82	0.96	—	4,954	4,954	0.11	0.49	5.41	—	5,108	5,108
Mit.	4.23	4.20	4.71	13.2	0.02	0.06	3.05	3.11	0.06	0.82	0.86	—	4,954	4,954	0.11	0.49	5.41	—	5,108	5,108
% Reduced	61%	61%	17%	-2%	—	62%	—	1%	60%	—	11%	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.55	8.39	36.9	103	0.16	1.12	19.5	20.2	1.03	4.80	5.42	—	36,659	36,659	0.76	3.41	99.3	37,792	
2027	9.16	7.99	34.8	97.0	0.16	0.61	19.5	20.2	0.58	4.80	5.38	—	36,022	36,022	0.72	3.41	88.3	37,143	
2028	8.21	7.65	33.5	91.4	0.16	0.57	19.5	20.1	0.55	4.80	5.34	—	35,282	35,282	0.72	3.25	78.1	36,348	
2029	7.83	6.68	31.8	86.4	0.16	0.55	19.5	20.1	0.52	4.80	5.32	—	34,526	34,526	0.68	2.81	68.7	35,448	
2030	7.49	6.40	30.3	82.0	0.16	0.53	19.5	20.1	0.51	4.80	5.31	—	33,774	33,774	0.55	2.67	60.7	34,644	

2031	198	198	29.3	78.0	0.16	0.51	19.5	20.1	0.36	4.80	5.16	—	32,987	32,987	0.51	2.54	53.0	33,808
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	9.10	7.87	39.4	86.2	0.16	1.24	19.8	21.0	1.14	10.1	11.3	—	35,182	35,182	0.83	3.44	2.58	36,232
2027	8.23	7.49	37.4	80.9	0.16	0.61	19.5	20.2	0.58	4.80	5.38	—	34,573	34,573	0.83	3.44	2.29	35,623
2028	7.74	6.68	35.5	76.7	0.16	0.57	19.5	20.1	0.55	4.80	5.34	—	33,865	33,865	0.80	3.31	2.02	34,873
2029	7.44	6.28	34.2	72.6	0.16	0.55	19.5	20.1	0.52	4.80	5.32	—	33,139	33,139	0.76	3.29	1.78	34,141
2030	7.07	5.95	32.7	69.2	0.16	0.53	19.5	20.1	0.51	4.80	5.31	—	32,414	32,414	0.62	3.12	1.57	33,360
2031	198	198	31.2	65.6	0.16	0.51	19.5	20.1	0.36	4.80	5.16	—	31,651	31,651	0.59	2.98	1.37	32,556
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.81	4.12	27.0	42.3	0.08	0.84	12.7	13.5	0.78	4.50	5.27	—	14,235	14,235	0.38	1.07	13.0	14,575
2027	7.06	6.42	31.2	70.8	0.14	0.52	16.7	17.2	0.50	4.09	4.59	—	29,922	29,922	0.65	2.95	32.7	30,850
2028	6.67	5.77	30.0	66.7	0.14	0.49	16.7	17.2	0.47	4.11	4.58	—	29,388	29,388	0.65	2.80	28.9	30,267
2029	6.34	5.36	28.4	63.3	0.14	0.47	16.7	17.2	0.45	4.09	4.54	—	28,680	28,680	0.62	2.79	25.4	29,552
2030	6.12	5.11	27.1	60.1	0.14	0.45	16.7	17.1	0.44	4.09	4.53	—	28,052	28,052	0.50	2.67	22.4	28,884
2031	59.0	58.8	10.5	24.1	0.05	0.20	6.16	6.36	0.16	1.50	1.66	—	9,958	9,958	0.18	0.70	7.00	10,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.88	0.75	4.93	7.72	0.01	0.15	2.32	2.47	0.14	0.82	0.96	—	2,357	2,357	0.06	0.18	2.16	2,413
2027	1.29	1.17	5.69	12.9	0.02	0.09	3.05	3.14	0.09	0.75	0.84	—	4,954	4,954	0.11	0.49	5.41	5,108
2028	1.22	1.05	5.48	12.2	0.02	0.09	3.05	3.14	0.09	0.75	0.84	—	4,866	4,866	0.11	0.46	4.79	5,011
2029	1.16	0.98	5.18	11.5	0.02	0.09	3.05	3.13	0.08	0.75	0.83	—	4,748	4,748	0.10	0.46	4.21	4,893
2030	1.12	0.93	4.95	11.0	0.02	0.08	3.05	3.13	0.08	0.75	0.83	—	4,644	4,644	0.08	0.44	3.72	4,782
2031	10.8	10.7	1.91	4.40	0.01	0.04	1.12	1.16	0.03	0.27	0.30	—	1,649	1,649	0.03	0.12	1.16	1,685

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	8.79	7.78	30.1	105	0.16	0.38	19.5	19.9	0.37	4.80	5.17	—	—	—	36,659	36,659	0.76	3.41	99.3	—	—	—	—	37,792
2027	8.44	7.42	28.5	99.0	0.16	0.37	19.5	19.9	0.37	4.80	5.16	—	—	—	36,022	36,022	0.72	3.41	88.3	—	—	—	—	37,143
2028	7.52	7.10	27.6	93.4	0.16	0.36	19.5	19.9	0.36	4.80	5.16	—	—	—	35,282	35,282	0.72	3.25	78.1	—	—	—	—	36,348
2029	7.16	6.16	26.2	88.4	0.16	0.36	19.5	19.9	0.36	4.80	5.15	—	—	—	34,526	34,526	0.68	2.81	68.7	—	—	—	—	35,448
2030	6.85	5.89	24.9	84.0	0.16	0.36	19.5	19.9	0.35	4.80	5.15	—	—	—	33,774	33,774	0.55	2.67	60.7	—	—	—	—	34,644
2031	73.4	73.2	24.2	80.1	0.16	0.35	19.5	19.9	0.22	4.80	5.01	—	—	—	32,987	32,987	0.51	2.54	53.0	—	—	—	—	33,808
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	8.35	7.26	32.7	88.2	0.16	0.38	19.8	19.9	0.37	10.1	10.3	—	—	—	35,182	35,182	0.83	3.44	2.58	—	—	—	—	36,232
2027	7.50	6.91	31.1	83.0	0.16	0.37	19.5	19.9	0.37	4.80	5.16	—	—	—	34,573	34,573	0.83	3.44	2.29	—	—	—	—	35,623
2028	7.06	6.13	29.6	78.7	0.16	0.36	19.5	19.9	0.36	4.80	5.16	—	—	—	33,865	33,865	0.80	3.31	2.02	—	—	—	—	34,873
2029	6.77	5.75	28.6	74.7	0.16	0.36	19.5	19.9	0.36	4.80	5.15	—	—	—	33,139	33,139	0.76	3.29	1.78	—	—	—	—	34,141
2030	6.43	5.44	27.3	71.2	0.16	0.36	19.5	19.9	0.35	4.80	5.15	—	—	—	32,414	32,414	0.62	3.12	1.57	—	—	—	—	33,360
2031	73.2	73.2	26.0	67.7	0.16	0.35	19.5	19.9	0.22	4.80	5.01	—	—	—	31,651	31,651	0.59	2.98	1.37	—	—	—	—	32,556
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.97	2.63	12.0	45.9	0.08	0.20	12.7	12.9	0.20	4.50	4.69	—	—	—	14,235	14,235	0.38	1.07	13.0	—	—	—	—	14,575
2027	6.44	5.92	25.8	72.5	0.14	0.32	16.7	17.0	0.31	4.09	4.41	—	—	—	29,922	29,922	0.65	2.95	32.7	—	—	—	—	30,850
2028	6.08	5.30	25.0	68.4	0.14	0.31	16.7	17.0	0.31	4.11	4.42	—	—	—	29,388	29,388	0.65	2.80	28.9	—	—	—	—	30,267
2029	5.77	4.91	23.6	65.0	0.14	0.31	16.7	17.0	0.31	4.09	4.40	—	—	—	28,680	28,680	0.62	2.79	25.4	—	—	—	—	29,552
2030	5.57	4.68	22.5	61.8	0.14	0.31	16.7	17.0	0.30	4.09	4.40	—	—	—	28,052	28,052	0.50	2.67	22.4	—	—	—	—	28,884
2031	23.2	23.0	7.98	24.9	0.05	0.12	6.16	6.28	0.08	1.50	1.58	—	—	—	9,958	9,958	0.18	0.70	7.00	—	—	—	—	10,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.54	0.48	2.19	8.38	0.01	0.04	2.32	2.35	0.04	0.82	0.86	—	—	—	2,357	2,357	0.06	0.18	2.16	—	—	—	—	2,413
2027	1.18	1.08	4.71	13.2	0.02	0.06	3.05	3.10	0.06	0.75	0.80	—	—	—	4,954	4,954	0.11	0.49	5.41	—	—	—	—	5,108
2028	1.11	0.97	4.56	12.5	0.02	0.06	3.05	3.11	0.06	0.75	0.81	—	—	—	4,866	4,866	0.11	0.46	4.79	—	—	—	—	5,011

2029	1.05	0.90	4.31	11.9	0.02	0.06	3.05	3.10	0.06	0.75	0.80	—	4,748	4,748	0.10	0.46	4.21	4,893
2030	1.02	0.85	4.11	11.3	0.02	0.06	3.05	3.10	0.06	0.75	0.80	—	4,644	4,644	0.08	0.44	3.72	4,782
2031	4.23	4.20	1.46	4.54	0.01	0.02	1.12	1.15	0.01	0.27	0.29	—	1,649	1,649	0.03	0.12	1.16	1,685

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

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

Location	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	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	4.55	4.50	0.01	0.19	—	0.19	0.18	—	0.18	—	827	827	0.03	0.01	—	830

Dust From Material Movement	—	—	—	—	—	—	3.07	3.07	—	1.58	1.58	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.83	0.82	< 0.005	0.04	—	0.04	0.03	—	0.03	—	137	137	0.01	< 0.005	—	137	137
Dust From Material Movement	—	—	—	—	—	0.56	0.56	—	—	0.29	0.29	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	0.67	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	143	143	< 0.005	0.01	0.01	0.01	145
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.9	22.9	< 0.005	< 0.005	0.04	23.3	23.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.80	3.80	< 0.005	< 0.005	0.01	3.85	3.85

3.2. Site Preparation (2026) - Mitigated

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

Location	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	0.59	0.57	3.48	28.2	0.05	0.13	—	0.13	0.13	—	0.13	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.09	0.54	4.40	0.01	0.02	—	0.02	0.02	—	0.02	—	827	827	0.03	0.01	—	830
Dust From Material Movement	—	—	—	—	—	—	3.07	3.07	—	1.58	1.58	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

[illegible]

3.3. Grading (2026) - 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	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.62	3.04	27.2	27.6	0.06	1.12	—	1.12	1.03	—	1.03	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.22	10.9	11.0	0.02	0.45	—	0.45	0.41	—	0.41	—	2,639	2,639	0.11	0.02	—	2,648

Dust From Material Movement	—	—	—	—	—	—	3.68	3.68	—	1.46	1.46	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.99	2.01	< 0.005	0.08	—	0.08	0.08	—	0.08	—	437	437	0.02	< 0.005	—	438
Dust From Material Movement	—	—	—	—	—	—	0.67	0.67	—	0.27	0.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.96	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	181	181	< 0.005	0.01	0.62	184
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.76	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	164	164	< 0.005	0.01	0.02	166
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	67.1	67.1	< 0.005	< 0.005	0.11	68.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	11.1	11.1	< 0.005	< 0.005	0.02	11.3		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

3.4. Grading (2026) - 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	0.82	0.79	4.74	35.4	0.06	0.17	—	0.17	0.16	—	0.16	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.79	4.74	35.4	0.06	0.17	—	0.17	0.16	—	0.16	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.31	1.90	14.2	0.02	0.07	—	3.68	3.68	0.07	0.07	—	1.46	1.46	0.07	—	2,639	2,639	0.11	0.02	—	2,648
Dust From Material Movement	—	—	—	—	—	—	—	3.68	3.68	0.07	0.07	—	1.46	1.46	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.35	2.58	< 0.005	0.01	—	—	—	0.01	0.01	—	0.01	—	0.01	—	437	437	0.02	< 0.005	—	438
Dust From Material Movement	—	—	—	—	—	—	—	0.67	0.67	0.67	0.67	—	0.27	0.27	0.27	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.05	0.96	0.00	0.00	0.17	0.17	0.17	0.00	0.00	0.04	0.04	0.04	0.04	—	181	181	< 0.005	0.01	0.62	184
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.76	0.00	0.00	0.17	0.17	0.17	0.00	0.00	0.04	0.04	0.04	0.04	—	164	164	< 0.005	0.01	0.02	166

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.00	0.07	0.07	0.00	0.02	0.02	0.00	67.1	67.1	< 0.005	< 0.005	0.11	0.11	< 0.005	< 0.005	0.00	68.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	0.00	11.1	11.1	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	11.3	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2026) - Unmitigated

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

Location	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	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.96	3.90	0.01	0.11	—	0.11	0.10	—	0.10	—	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.54	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.28	6.72	4.32	82.6	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	15.527	15,527	0.30	0.56	53.3	15,755	19,631	0.00	0.00	0.00
Vendor	0.99	0.60	22.7	7.62	0.14	0.27	5.14	5.41	0.27	1.42	1.69	—	18,735	18,735	0.36	2.82	46.0	19,631	19,631	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.87	6.23	5.44	65.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	14,034	14,034	0.38	0.60	1.38	14,224	19,602	0.00	0.00	0.00
Vendor	0.96	0.57	24.1	7.89	0.14	0.27	5.14	5.41	0.27	1.42	1.69	—	18,751	18,751	0.36	2.82	1.20	19,602	19,602	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.05	1.87	1.47	20.1	0.00	0.00	4.31	4.31	0.00	1.01	1.01	—	4,324	4,324	0.10	0.18	6.92	4,387	5,895	0.00	0.00	0.00
Vendor	0.29	0.18	7.11	2.33	0.04	0.08	1.54	1.62	0.08	0.43	0.51	—	5,633	5,633	0.11	0.85	5.99	5,895	5,895	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.34	0.27	3.67	0.00	0.00	0.79	0.00	0.18	0.18	0.02	716	0.02	0.03	1.14	0.02	0.03	0.02	0.00
Vendor	0.05	0.03	1.30	0.42	0.01	0.01	0.28	0.30	0.08	0.09	0.02	933	0.02	0.14	0.99	0.02	0.14	0.02	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2026) - Mitigated

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

Location	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	0.52	0.47	3.12	15.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.47	3.12	15.0	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	0.94	4.50	0.01	0.03	—	0.03	0.03	—	0.03	—	721	721	0.03	0.01	—	723

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	0.82	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	119	< 0.005	119	< 0.005
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.28	6.72	4.32	82.6	0.00	0.00	14.4	14.4	0.00	3.38	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,527	15,527	0.30	0.56	53.3
Vendor	0.99	0.60	22.7	7.62	0.14	0.27	5.14	5.41	0.27	1.42	1.69	0.27	0.00	0.00	0.00	0.00	0.00	0.00	18,735	18,735	0.36	2.82	46.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.87	6.23	5.44	65.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14,034	14,034	0.38	0.60	1.38
Vendor	0.96	0.57	24.1	7.89	0.14	0.27	5.14	5.41	0.27	1.42	1.69	0.27	0.00	0.00	0.00	0.00	0.00	0.00	18,751	18,751	0.36	2.82	1.20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.05	1.87	1.47	20.1	0.00	0.00	4.31	4.31	0.00	1.01	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,324	4,324	0.10	0.18	6.92
Vendor	0.29	0.18	7.11	2.33	0.04	0.08	1.54	1.62	0.08	0.43	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.00	5,633	5,633	0.11	0.85	5.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.37	0.34	0.27	3.67	0.00	0.00	0.79	0.79	0.00	0.18	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	716	716	0.02	0.03	1.14
Vendor	0.05	0.03	1.30	0.42	0.01	0.01	0.28	0.30	0.01	0.08	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	933	933	0.02	0.14	0.99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	8.05	11.1	0.02	0.29	—	0.29	0.27	—	0.27	—	2,055	2,055	0.08	0.02	—	2,062
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.47	2.02	< 0.005	0.05	—	0.05	0.05	—	0.05	—	340	340	0.01	< 0.005	—	341

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.94	6.38	3.79	76.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.99	0.58	21.7	7.31	0.14	0.27	5.14	5.41	5.41	0.27	1.42	1.69	3.38	3.38	3.38	—	15,281	15,281	0.26	0.56	47.9	15,504	19,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.04	5.89	4.92	60.4	0.00	0.00	14.4	14.4	14.4	0.00	3.38	3.38	3.38	3.38	3.38	—	13,817	13,817	0.38	0.60	1.24	14,006	19,211
Vendor	0.96	0.57	23.1	7.58	0.14	0.27	5.14	5.41	5.41	0.27	1.42	1.69	3.38	3.38	3.38	—	18,360	18,360	0.36	2.82	1.05	19,211	19,211
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.18	5.05	3.73	53.3	0.00	0.00	12.3	12.3	12.3	0.00	2.88	2.88	2.88	2.88	2.88	—	12,138	12,138	0.26	0.51	17.7	12,316	16,472
Vendor	0.83	0.49	19.4	6.37	0.12	0.23	4.39	4.63	4.63	0.23	1.21	1.45	3.38	3.38	3.38	—	15,729	15,729	0.31	2.42	14.9	16,472	16,472
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.92	0.68	9.73	0.00	0.00	2.24	2.24	2.24	0.00	0.53	0.53	0.53	0.53	0.53	—	2,010	2,010	0.04	0.09	2.94	2,039	2,727
Vendor	0.15	0.09	3.54	1.16	0.02	0.04	0.80	0.84	0.84	0.04	0.22	0.26	0.53	0.53	0.53	—	2,604	2,604	0.05	0.40	2.47	2,727	2,727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2027) - Mitigated

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

Location	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	0.51	0.45	3.08	15.0	0.02	0.10	—	—	0.10	0.09	—	0.09	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	0.45	3.08	15.0	0.02	0.10	—	—	0.10	0.09	—	0.09	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.39	2.64	12.8	0.02	0.09	—	—	0.09	0.08	—	0.08	—	2,055	2,055	0.08	0.02	—	—	—	—	—	—	2,062
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.48	2.34	< 0.005	0.02	—	—	0.02	0.01	—	0.01	—	340	340	0.01	< 0.005	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	6.94	6.38	3.79	76.7	0.00	0.00	14.4	14.4	0.00	3.38	3.38	3.38	—	15,281	15,281	0.26	0.56	47.9	15,504
Vendor	0.99	0.58	21.7	7.31	0.14	0.27	5.41	5.14	0.27	1.42	1.42	1.69	—	18,343	18,343	0.36	2.82	40.4	19,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.04	5.89	4.92	60.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	3.38	—	13,817	13,817	0.38	0.60	1.24	14,006
Vendor	0.96	0.57	23.1	7.58	0.14	0.27	5.41	5.14	0.27	1.42	1.42	1.69	—	18,360	18,360	0.36	2.82	1.05	19,211
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.18	5.05	3.73	53.3	0.00	0.00	12.3	12.3	0.00	2.88	2.88	2.88	—	12,138	12,138	0.26	0.51	17.7	12,316
Vendor	0.83	0.49	19.4	6.37	0.12	0.23	4.63	4.39	0.23	1.21	1.21	1.45	—	15,729	15,729	0.31	2.42	14.9	16,472
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.92	0.68	9.73	0.00	0.00	2.24	2.24	0.00	0.53	0.53	0.53	—	2,010	2,010	0.04	0.09	2.94	2,039
Vendor	0.15	0.09	3.54	1.16	0.02	0.04	0.84	0.80	0.04	0.22	0.22	0.26	—	2,604	2,604	0.05	0.40	2.47	2,727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	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	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.18	0.99	8.92	12.9	0.02	0.30	—	0.30	0.28	—	0.00	0.00	0.28	—	2,397	2,397	0.10	0.02	—	2,406	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	1.02	0.85	7.67	11.1	0.02	0.26	—	0.26	0.24	—	0.00	0.00	0.24	—	2,061	2,061	0.08	0.02	—	2,068	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.19	0.16	1.40	2.03	< 0.005	0.05	—	0.05	0.04	—	0.00	0.00	0.04	—	341	341	0.01	< 0.005	—	342	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	6.19	6.08	3.72	71.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	3.38	3.38	—	14,985	14,985	0.26	0.56	42.9	15,202	—	
Vendor	0.84	0.58	20.9	6.99	0.14	0.27	5.14	5.14	0.27	1.69	1.42	1.42	1.69	—	17,900	17,900	0.36	2.67	35.2	18,740	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Worker	5.74	5.14	4.39	56.5	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	13,551	13,551	0.34	0.60	1.11	13,740
Vendor	0.82	0.55	22.2	7.25	0.14	0.27	5.14	5.14	0.27	1.42	1.69	—	17,916	17,916	0.36	2.69	0.91	18,727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.96	4.45	3.68	49.5	0.00	0.00	12.3	12.3	0.00	2.89	2.89	—	11,937	11,937	0.26	0.48	15.9	12,104
Vendor	0.69	0.48	18.7	6.11	0.12	0.23	4.41	4.41	0.23	1.22	1.45	—	15,391	15,391	0.31	2.30	13.0	16,096
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.81	0.67	9.03	0.00	0.00	2.25	2.25	0.00	0.53	0.53	—	1,976	1,976	0.04	0.08	2.63	2,004
Vendor	0.13	0.09	3.41	1.12	0.02	0.04	0.80	0.80	0.04	0.22	0.26	—	2,548	2,548	0.05	0.38	2.16	2,665
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

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

Location	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	0.50	0.44	3.04	14.9	0.02	0.09	—	0.09	0.09	—	0.09	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	0.44	3.04	14.9	0.02	0.09	—	0.09	0.09	—	0.09	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	0.38	2.61	12.8	0.02	0.08	—	0.08	0.08	—	0.08	2,061	2,061	0.08	0.02	—	2,068
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.48	2.34	< 0.005	0.01	—	0.01	0.01	—	0.01	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.19	6.08	3.72	71.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	14,985	14,985	0.26	0.56	42.9	15,202
Vendor	0.84	0.58	20.9	6.99	0.14	0.27	5.14	5.41	0.27	1.42	1.69	17,900	17,900	0.36	2.67	35.2	18,740
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.14	4.39	56.5	0.00	0.00	14.4	14.4	0.00	3.38	3.38	13,551	13,551	0.34	0.60	1.11	13,740
Vendor	0.82	0.55	22.2	7.25	0.14	0.27	5.14	5.41	0.27	1.42	1.69	17,916	17,916	0.36	2.69	0.91	18,727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.96	4.45	3.68	49.5	0.00	0.00	12.3	12.3	0.00	2.89	2.89	2.89	—	11,937	11,937	0.26	0.48	15.9	12,104			
Vendor	0.69	0.48	18.7	6.11	0.12	0.23	4.41	4.64	0.23	1.22	1.45	—	—	15,391	15,391	0.31	2.30	13.0	16,096			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	0.91	0.81	0.67	9.03	0.00	0.00	2.25	2.25	0.00	0.53	0.53	0.53	—	1,976	1,976	0.04	0.08	2.63	2,004			
Vendor	0.13	0.09	3.41	1.12	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	—	2,548	2,548	0.05	0.38	2.16	2,665			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

3.11. Building Construction (2029) - 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	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	8.58	12.9	0.02	0.28	—	0.28	0.25	—	0.25	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Worker	0.85	0.76	0.59	8.44	0.00	0.00	2.24	2.24	0.00	0.53	0.53	—	1,935	1,935	0.04	0.08	2.33	1,962
Vendor	0.13	0.07	3.25	1.08	0.02	0.04	0.80	0.84	0.04	0.22	0.26	—	2,473	2,473	0.05	0.38	1.88	2,589
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2029) - 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	0.49	0.44	3.02	14.9	0.02	0.09	—	0.09	0.09	—	0.09	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49	0.44	3.02	14.9	0.02	0.09	—	0.09	0.09	—	0.09	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.37	2.59	12.8	0.02	0.08	—	0.08	0.07	—	0.07	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.47	2.34	< 0.005	0.01	—	—	0.01	—	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.85	5.29	3.23	66.7	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	14,708	14,708	0.23	0.11	38.2	14,786	
Vendor	0.82	0.43	20.0	6.83	0.14	0.27	5.14	5.41	0.27	1.42	1.69	—	17,421	17,421	0.36	2.67	30.5	18,257	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	5.51	4.91	4.32	52.6	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	13,304	13,304	0.30	0.60	0.99	13,491	
Vendor	0.78	0.40	21.3	7.07	0.14	0.27	5.14	5.41	0.27	1.42	1.69	—	17,438	17,438	0.36	2.67	0.79	18,244	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	4.66	4.18	3.22	46.3	0.00	0.00	12.3	12.3	0.00	2.88	2.88	—	11,687	11,687	0.23	0.48	14.1	11,850	
Vendor	0.69	0.36	17.8	5.94	0.12	0.23	4.39	4.63	0.23	1.21	1.45	—	14,939	14,939	0.31	2.29	11.3	15,640	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.85	0.76	0.59	8.44	0.00	0.00	2.24	2.24	0.00	0.53	0.53	—	1,935	1,935	0.04	0.08	2.33	1,962	
Vendor	0.13	0.07	3.25	1.08	0.02	0.04	0.80	0.84	0.04	0.22	0.26	—	2,473	2,473	0.05	0.38	1.88	2,589	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.13. Building Construction (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	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	8.39	12.9	0.02	0.26	—	0.26	0.24	—	0.24	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.81	7.19	11.0	0.02	0.22	—	0.22	0.21	—	0.21	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.31	2.02	< 0.005	0.04	—	0.04	0.04	—	0.04	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.55	5.02	2.74	62.4	0.00	0.00	14.4	14.4	14.4	0.00	3.38	3.38	3.38	—	14,463	14,463	0.23	0.11	33.8	14,537					
Vendor	0.82	0.43	19.2	6.68	0.14	0.27	5.14	5.14	5.41	0.27	1.42	1.69	—	16,914	16,914	0.22	2.54	26.9	17,702						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.17	4.61	3.83	49.4	0.00	0.00	14.4	14.4	14.4	0.00	3.38	3.38	3.38	—	13,086	13,086	0.30	0.56	0.87	13,262					
Vendor	0.78	0.40	20.5	6.90	0.14	0.27	5.14	5.14	5.41	0.27	1.42	1.69	—	16,931	16,931	0.22	2.54	0.70	17,693						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.95	2.80	43.2	0.00	0.00	12.3	12.3	12.3	0.00	2.88	2.88	2.88	—	11,494	11,494	0.23	0.48	12.5	11,656					
Vendor	0.69	0.36	17.2	5.81	0.12	0.23	4.39	4.63	4.63	0.23	1.21	1.45	—	14,504	14,504	0.19	2.18	9.94	15,167						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.81	0.72	0.51	7.89	0.00	0.00	2.24	2.24	2.24	0.00	0.53	0.53	0.53	—	1,903	1,903	0.04	0.08	2.07	1,930					
Vendor	0.13	0.07	3.13	1.06	0.02	0.04	0.80	0.84	0.84	0.04	0.22	0.26	—	2,401	2,401	0.03	0.36	1.65	2,511						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

3.14. Building Construction (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	0.48	0.43	3.00	14.9	0.02	0.09	—	0.09	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.43	3.00	14.9	0.02	0.09	—	0.09	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.37	2.57	12.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.47	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.55	5.02	2.74	62.4	0.00	0.00	14.4	14.4	0.00	3.38	3.38	—	14,463	14,463	0.23	0.11	33.8	14,537
Vendor	0.82	0.43	19.2	6.68	0.14	0.27	5.14	5.41	0.27	1.42	1.69	—	16,914	16,914	0.22	2.54	26.9	17,702
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.17	4.61	3.83	49.4	0.00	0.00	14.4	14.4	14.4	0.00	3.38	3.38	—	—	13,086	13,086	0.30	0.56	0.87	13,262			
Vendor	0.78	0.40	20.5	6.90	0.14	0.27	5.14	5.14	5.41	0.27	1.42	1.69	—	—	16,931	16,931	0.22	2.54	0.70	17,693			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	4.46	3.95	2.80	43.2	0.00	0.00	12.3	12.3	12.3	0.00	2.88	2.88	—	—	11,494	11,494	0.23	0.48	12.5	11,656			
Vendor	0.69	0.36	17.2	5.81	0.12	0.23	4.39	4.39	4.63	0.23	1.21	1.45	—	—	14,504	14,504	0.19	2.18	9.94	15,167			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	0.81	0.72	0.51	7.89	0.00	0.00	2.24	2.24	2.24	0.00	0.53	0.53	—	—	1,903	1,903	0.04	0.08	2.07	1,930			
Vendor	0.13	0.07	3.13	1.06	0.02	0.04	0.80	0.80	0.84	0.04	0.22	0.26	—	—	2,401	2,401	0.03	0.36	1.65	2,511			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00			

3.15. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.10	0.92	8.12	12.8	0.02	0.24	—	0.24	—	0.22	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.21	3.50	0.01	0.07	—	0.07	—	0.06	—	653	653	0.03	0.01	—	655
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.40	0.64	< 0.005	0.01	—	0.01	—	0.01	—	108	108	< 0.005	< 0.005	—	108
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.25	4.72	2.67	58.6	0.00	0.00	14.4	14.4	—	0.00	—	14,207	14,207	0.19	0.11	29.8	14,276
Vendor	0.82	0.43	18.5	6.51	0.14	0.27	5.14	5.41	—	0.14	—	16,383	16,383	0.22	2.40	23.2	17,127
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	4.34	3.31	46.2	0.00	0.00	14.4	14.4	—	0.00	—	12,854	12,854	0.26	0.56	0.77	13,029
Vendor	0.78	0.40	19.7	6.59	0.14	0.27	5.14	5.41	—	0.14	—	16,400	16,400	0.22	2.40	0.60	17,122
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.22	1.19	0.87	12.9	0.00	0.00	0.00	3.91	3.91	0.00	0.92	0.92	—	3,588	3,588	0.06	0.03	3.50	3,603
Vendor	0.22	0.11	5.24	1.76	0.04	0.07	0.07	1.40	1.47	0.04	0.39	0.42	—	4,465	4,465	0.06	0.65	2.73	4,664
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	0.16	2.35	0.00	0.00	0.00	0.71	0.71	0.00	0.17	0.17	—	594	594	0.01	0.01	0.58	596
Vendor	0.04	0.02	0.96	0.32	0.01	0.01	0.01	0.25	0.27	0.01	0.07	0.08	—	739	739	0.01	0.11	0.45	772
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. 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	0.47	0.43	2.99	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.43	2.99	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.13	0.12	0.81	4.06	0.01	0.02	—	0.02	—	0.02	—	653	653	0.03	0.01	—	655
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.74	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	108	108	< 0.005	< 0.005	—	108
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.25	4.72	2.67	58.6	0.00	0.00	14.4	14.4	0.00	0.00	—	14,207	14,207	0.19	0.11	29.8	14,276
Vendor	0.82	0.43	18.5	6.51	0.14	0.27	5.14	5.41	0.14	1.56	—	16,383	16,383	0.22	2.40	23.2	17,127
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	4.34	3.31	46.2	0.00	0.00	14.4	14.4	0.00	3.38	—	12,854	12,854	0.26	0.56	0.77	13,029
Vendor	0.78	0.40	19.7	6.59	0.14	0.27	5.14	5.41	0.14	1.56	—	16,400	16,400	0.22	2.40	0.60	17,122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.22	1.19	0.87	12.9	0.00	0.00	3.91	3.91	0.00	0.92	—	3,588	3,588	0.06	0.03	3.50	3,603
Vendor	0.22	0.11	5.24	1.76	0.04	0.07	1.40	1.47	0.04	0.39	—	4,465	4,465	0.06	0.65	2.73	4,664
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	0.16	2.35	0.00	0.00	0.71	0.71	0.00	0.17	—	594	594	0.01	0.01	0.58	596
Vendor	0.04	0.02	0.96	0.32	0.01	0.01	0.25	0.27	0.01	0.07	—	739	739	0.01	0.11	0.45	772

3.17. Paving (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	0.75	0.63	6.13	9.88	0.01	0.21	—	0.21	0.19	—	0.19	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.31	2.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.18	1.75	2.82	< 0.005	0.06	—	0.06	0.05	—	0.05	—	430	430	0.02	< 0.005	—	432
Paving	0.66	0.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.32	0.51	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.3	71.3	< 0.005	< 0.005	—	71.5
Paving	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.51	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.00	0.00	0.00	124	124	< 0.005	< 0.005	< 0.005	0.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	0.00	0.00	32.8	32.8	< 0.005	< 0.005	< 0.005	0.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.00	0.00	5.44	5.44	< 0.005	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Paving (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	0.37	0.33	2.27	10.6	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.31	2.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.65	3.01	< 0.005	0.02	—	0.02	0.02	—	0.02	—	430	430	0.02	< 0.005	—	432
Paving	0.66	0.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.55	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	71.3	71.3	< 0.005	< 0.005	—	71.5
Paving	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.51	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	124	124	< 0.005	< 0.005	0.26	125
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.01	0.01	0.01	—	32.8	32.8	< 0.005	< 0.005	0.03	33.0	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	5.44	5.44	< 0.005	< 0.005	0.01	5.46	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2031) - Unmitigated

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

[illegible]

Off-Road Equipment	0.12	0.10	0.78	1.10	< 0.005	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	197	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	0.31	< 0.005	< 0.005	—	< 0.005	—	38.0	38.0	< 0.005	< 0.005	—	38.2
Architectural Coatings	56.1	56.1	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	—	6.30	6.30	< 0.005	< 0.005	—	6.32
Architectural Coatings	10.2	10.2	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	0.94	0.53	11.7	0.00	2.88	2.88	0.00	0.68	2,841	2,841	0.04	0.02	5.95	2,855
Vendor	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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.87	0.66	9.23	0.00	0.00	2.88	0.00	0.68	0.68	2.88	0.00	0.00	2,571	2,571	0.05	0.11	0.15	2,606
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.25	0.18	2.70	0.00	0.00	0.82	0.00	0.19	0.19	0.82	0.00	0.00	751	751	0.01	0.01	0.73	754
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.49	0.00	0.00	0.15	0.00	0.03	0.03	0.15	0.00	0.00	124	124	< 0.005	< 0.005	0.12	125
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (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	0.12	0.10	0.78	1.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	72.2	72.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	0.94	0.53	11.7	0.00	0.00	0.00	0.00	2.88	0.00	0.68	0.68	—	2,841	2,841	0.04	0.02	5.95	2,855
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.87	0.66	9.23	0.00	0.00	0.00	0.00	2.88	0.00	0.68	0.68	—	2,571	2,571	0.05	0.11	0.15	2,606
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.25	0.18	2.70	0.00	0.00	0.00	0.00	0.82	0.00	0.19	0.19	—	751	751	0.01	0.01	0.73	754
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.49	0.00	0.00	0.00	0.00	0.15	0.00	0.03	0.03	—	124	124	< 0.005	< 0.005	0.12	125
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1/1/2026	3/7/2026	6.00	57.0	—
Grading	Grading	3/9/2026	8/25/2026	6.00	146	—
Building Construction	Building Construction	8/26/2026	4/26/2031	6.00	1,462	—
Paving	Paving	4/28/2031	8/26/2031	6.00	104	—
Architectural Coating	Architectural Coating	8/27/2031	12/25/2031	6.00	104	—

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	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	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	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	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	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,714	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	674	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—
Architectural Coating	Worker	343	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,714	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	674	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

Architectural Coating	—	—	—	—	—
Architectural Coating	Worker	343	11.9	LDA,LDT1,LDT2	
Architectural Coating	Vendor	—	9.10	HHDT,MHDT	
Architectural Coating	Hauling	0.00	20.0	HHDT	
Architectural Coating	Onsite truck	—	—	HHDT	

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	6,167,400	2,055,800	303,575

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	85.5	0.00	—
Grading	—	—	438	0.00	—
Paving	0.00	0.00	0.00	0.00	116

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
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General Office Building	0.00	0%
Other Non-Asphalt Surfaces	24.6	0%
Parking Lot	24.6	100%
University/College (4yr)	0.00	0%
Industrial Park	0.00	0%
Government Office Building	0.00	0%
Other Asphalt Surfaces	67.0	100%
City Park	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
2026	0.00	204	0.03	< 0.005
2027	0.00	204	0.03	< 0.005
2028	0.00	204	0.03	< 0.005
2029	0.00	204	0.03	< 0.005
2030	0.00	204	0.03	< 0.005
2031	0.00	204	0.03	< 0.005

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A

Wildfire	N/A	N/A	N/A	N/A	N/A
Flooding	1	1	1	2	
Drought	1	1	1	2	
Snowpack Reduction	N/A	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	61.0				
AQ-PM	26.8				
AQ-DPM	15.7				
Drinking Water	60.1				
Lead Risk Housing	17.3				
Pesticides	83.8				
Toxic Releases	18.1				
Traffic	25.4				
Effect Indicators	—				
CleanUp Sites	89.4				
Groundwater	97.2				

Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954

Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4

Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Healthy 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
Land Use	Land uses are based on Project-specific information.
Construction: Construction Phases	Project-specific schedule.

Pacific Gateway (Remaining East Development Area Construction) Detailed Report

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5.18.1. Biomass Cover Type

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Remaining East Development Area Construction)
Construction Start Date	1/1/2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	7,162	1000sqft	235	7,162,300	1,362,000	—	—	—
Parking Lot	1,649	1000sqft	37.8	0.00	0.00	—	—	—

Other Non-Asphalt Surfaces	1,104	1000sqft	25.3	0.00	0.00	—	—	—
City Park	36.4	Acre	36.4	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	3,554	1000sqft	81.6	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	255	254	41.5	117	0.26	0.79	34.2	34.7	0.73	8.40	8.82	—	53,440	53,440	0.82	4.17	68.8	54,772
Mit.	86.2	86.0	36.8	119	0.26	0.32	34.2	34.5	0.31	8.40	8.71	—	53,440	53,440	0.82	4.17	68.8	54,772
% Reduced	66%	66%	11%	-2%	—	60%	—	< 0.5%	57%	—	1%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	255	254	46.7	101	0.26	0.93	34.2	34.7	0.85	10.1	11.0	—	52,333	52,333	0.95	4.40	2.08	53,671
Mit.	86.2	86.0	41.8	103	0.26	0.32	34.2	34.5	0.31	10.1	10.2	—	52,333	52,333	0.95	4.40	2.08	53,671
% Reduced	66%	66%	10%	-2%	—	66%	—	< 0.5%	63%	—	7%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	97.9	97.7	37.4	84.9	0.22	0.67	29.3	29.6	0.62	7.19	7.53	—	44,307	44,307	0.76	3.57	25.5	45,416	45,416	
Mit.	34.1	33.9	33.4	86.7	0.22	0.27	29.3	29.6	0.27	7.19	7.45	—	44,307	44,307	0.76	3.57	25.5	45,416	45,416	
% Reduced	65%	65%	11%	-2%	—	60%	—	< 0.5%	57%	—	1%	—	—	—	—	—	—	—	—	
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Unmit.	17.9	17.8	6.83	15.5	0.04	0.12	5.35	5.41	0.11	1.31	1.37	—	7,335	7,335	0.13	0.59	4.21	7,519	7,519	
Mit.	6.22	6.19	6.09	15.8	0.04	0.05	5.35	5.40	0.05	1.31	1.36	—	7,335	7,335	0.13	0.59	4.21	7,519	7,519	
% Reduced	65%	65%	11%	-2%	—	60%	—	< 0.5%	57%	—	1%	—	—	—	—	—	—	—	—	

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.10	2.61	19.4	26.4	0.06	0.79	9.37	10.2	0.73	3.69	4.42	—	6,760	6,760	0.27	0.05	0.30	6,783	
2033	9.86	9.12	41.5	117	0.26	0.44	34.2	34.7	0.42	8.40	8.82	—	53,440	53,440	0.82	4.17	68.8	54,772	
2034	9.38	8.64	40.2	113	0.26	0.43	34.2	34.7	0.41	8.40	8.81	—	52,318	52,318	0.75	4.17	58.6	53,637	
2035	9.23	8.56	39.2	108	0.26	0.42	34.2	34.6	0.40	8.40	8.80	—	51,282	51,282	0.75	3.93	49.6	52,522	
2036	8.99	8.25	38.3	104	0.26	0.40	34.2	34.6	0.39	8.40	8.79	—	50,350	50,350	0.75	3.93	41.6	51,582	
2037	8.64	7.91	36.8	102	0.26	0.39	34.2	34.6	0.38	8.40	8.78	—	49,524	49,524	0.75	3.93	34.5	50,750	
2038	8.43	7.70	36.0	99.9	0.26	0.39	34.2	34.6	0.38	8.40	8.77	—	48,697	48,697	0.75	3.70	28.6	49,846	
2039	255	254	5.32	16.1	0.01	0.11	5.05	5.06	0.10	1.18	1.19	—	4,696	4,696	0.06	0.04	2.98	4,712	
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2032	9.88	8.86	46.7	101	0.26	0.93	34.2	34.7	0.85	10.1	11.0	—	52,333	52,333	0.95	4.40	2.08	53,671
2033	9.30	8.51	44.5	96.6	0.26	0.44	34.2	34.7	0.42	8.40	8.82	—	51,165	51,165	0.89	4.17	1.78	52,430
2034	8.95	8.23	43.4	92.7	0.26	0.43	34.2	34.7	0.41	8.40	8.81	—	50,073	50,073	0.89	4.17	1.52	51,339
2035	8.80	8.08	42.1	89.7	0.26	0.42	34.2	34.6	0.40	8.40	8.80	—	49,064	49,064	0.89	3.93	1.29	50,259
2036	8.64	7.93	40.4	87.0	0.26	0.40	34.2	34.6	0.39	8.40	8.79	—	48,155	48,155	0.82	3.93	1.08	49,349
2037	8.36	7.65	39.4	84.2	0.26	0.39	34.2	34.6	0.38	8.40	8.78	—	47,351	47,351	0.82	3.93	0.89	48,544
2038	8.02	6.53	38.8	81.9	0.26	0.39	34.2	34.6	0.38	8.40	8.77	—	46,546	46,546	0.79	3.70	0.74	47,668
2039	255	254	38.2	80.2	0.26	0.38	34.2	34.6	0.37	8.40	8.77	—	45,908	45,908	0.79	3.70	0.61	47,031
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.51	3.03	20.4	31.7	0.07	0.67	13.2	13.8	0.62	5.06	5.67	—	11,052	11,052	0.30	0.57	4.25	11,232
2033	7.96	7.32	37.4	84.9	0.22	0.38	29.2	29.6	0.36	7.17	7.53	—	44,307	44,307	0.76	3.57	25.5	45,416
2034	7.60	6.96	35.6	81.1	0.22	0.37	29.2	29.6	0.35	7.17	7.52	—	43,365	43,365	0.70	3.57	21.7	44,468
2035	7.58	6.89	34.7	78.7	0.22	0.36	29.2	29.6	0.34	7.17	7.51	—	42,494	42,494	0.70	3.37	18.3	43,534
2036	7.47	6.84	33.9	76.1	0.22	0.35	29.3	29.6	0.34	7.19	7.52	—	41,825	41,825	0.70	3.38	15.4	42,866
2037	7.16	6.53	33.1	73.6	0.22	0.34	29.2	29.6	0.33	7.17	7.50	—	41,017	41,017	0.70	3.37	12.8	42,052
2038	6.92	6.29	32.5	72.4	0.22	0.33	29.2	29.6	0.32	7.17	7.49	—	40,323	40,323	0.65	3.17	10.6	41,294
2039	97.9	97.7	5.36	14.9	0.03	0.07	4.51	4.58	0.07	1.09	1.15	—	5,748	5,748	0.10	0.30	1.26	5,841
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.64	0.55	3.72	5.79	0.01	0.12	2.40	2.52	0.11	0.92	1.04	—	1,830	1,830	0.05	0.09	0.70	1,860
2033	1.45	1.34	6.83	15.5	0.04	0.07	5.33	5.40	0.07	1.31	1.37	—	7,335	7,335	0.13	0.59	4.21	7,519
2034	1.39	1.27	6.50	14.8	0.04	0.07	5.33	5.40	0.06	1.31	1.37	—	7,179	7,179	0.12	0.59	3.59	7,362
2035	1.38	1.26	6.34	14.4	0.04	0.06	5.33	5.40	0.06	1.31	1.37	—	7,035	7,035	0.12	0.56	3.03	7,208
2036	1.36	1.25	6.19	13.9	0.04	0.06	5.35	5.41	0.06	1.31	1.37	—	6,925	6,925	0.12	0.56	2.55	7,097
2037	1.31	1.19	6.04	13.4	0.04	0.06	5.33	5.39	0.06	1.31	1.37	—	6,791	6,791	0.12	0.56	2.12	6,962
2038	1.26	1.15	5.94	13.2	0.04	0.06	5.33	5.39	0.06	1.31	1.37	—	6,676	6,676	0.11	0.52	1.75	6,837
2039	17.9	17.8	0.98	2.72	< 0.005	0.01	0.82	0.84	0.01	0.20	0.21	—	952	952	0.02	0.05	0.21	967

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
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.82	0.79	4.71	36.0	0.06	0.14	9.37	9.51	0.14	3.69	3.83	—	6,760	6,760	0.27	0.05	0.30	6,783
2033	9.28	8.66	36.8	119	0.26	0.32	34.2	34.5	0.31	8.40	8.71	—	53,440	53,440	0.82	4.17	68.8	54,772
2034	8.82	8.19	35.6	115	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	52,318	52,318	0.75	4.17	58.6	53,637
2035	8.68	8.13	34.8	111	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	51,282	51,282	0.75	3.93	49.6	52,522
2036	8.46	7.83	34.1	107	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	50,350	50,350	0.75	3.93	41.6	51,582
2037	8.12	7.50	32.7	104	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	49,524	49,524	0.75	3.93	34.5	50,750
2038	7.92	7.30	32.1	102	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	48,697	48,697	0.75	3.70	28.6	49,846
2039	86.2	86.0	2.16	16.1	0.01	0.05	5.05	5.06	0.05	1.18	1.19	—	4,696	4,696	0.06	0.04	2.98	4,712
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	9.28	8.39	41.8	103	0.26	0.32	34.2	34.5	0.31	10.1	10.2	—	52,333	52,333	0.95	4.40	2.08	53,671
2033	8.71	8.05	39.8	98.7	0.26	0.32	34.2	34.5	0.31	8.40	8.71	—	51,165	51,165	0.89	4.17	1.78	52,430
2034	8.38	7.78	38.9	94.8	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	50,073	50,073	0.89	4.17	1.52	51,339
2035	8.25	7.65	37.7	91.9	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	49,064	49,064	0.89	3.93	1.29	50,259
2036	8.11	7.52	36.3	89.3	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	48,155	48,155	0.82	3.93	1.08	49,349
2037	7.85	7.25	35.4	86.6	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	47,351	47,351	0.82	3.93	0.89	48,544
2038	7.51	6.13	34.8	84.3	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	46,546	46,546	0.79	3.70	0.74	47,668
2039	86.2	86.0	34.4	82.7	0.26	0.31	34.2	34.5	0.31	8.40	8.71	—	45,908	45,908	0.79	3.70	0.61	47,031
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	1.66	1.54	7.86	37.6	0.07	0.13	13.2	13.3	0.13	5.06	5.19	—	11,052	11,052	0.30	0.57	4.25	11,232
2033	7.46	6.92	33.4	86.7	0.22	0.27	29.2	29.5	0.27	7.17	7.44	—	44,307	44,307	0.76	3.57	25.5	45,416
2034	7.11	6.58	31.7	82.9	0.22	0.27	29.2	29.5	0.27	7.17	7.44	—	43,365	43,365	0.70	3.57	21.7	44,468

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2035	7.11	6.52	31.0	80.6	0.22	0.27	29.2	29.5	0.27	7.17	7.43	—	42,494	42,494	0.70	3.37	18.3	43,534
2036	7.02	6.48	30.3	78.0	0.22	0.27	29.3	29.6	0.27	7.19	7.45	—	41,825	41,825	0.70	3.38	15.4	42,866
2037	6.71	6.18	29.7	75.7	0.22	0.27	29.2	29.5	0.26	7.17	7.43	—	41,017	41,017	0.70	3.37	12.8	42,052
2038	6.49	5.95	29.2	74.5	0.22	0.27	29.2	29.5	0.26	7.17	7.43	—	40,323	40,323	0.65	3.17	10.6	41,294
2039	34.1	33.9	3.88	15.4	0.03	0.04	4.51	4.56	0.04	1.09	1.13	—	5,748	5,748	0.10	0.30	1.26	5,841
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.30	0.28	1.43	6.87	0.01	0.02	2.40	2.43	0.02	0.92	0.95	—	1,830	1,830	0.05	0.09	0.70	1,860
2033	1.36	1.26	6.09	15.8	0.04	0.05	5.33	5.38	0.05	1.31	1.36	—	7,335	7,335	0.13	0.59	4.21	7,519
2034	1.30	1.20	5.79	15.1	0.04	0.05	5.33	5.38	0.05	1.31	1.36	—	7,179	7,179	0.12	0.59	3.59	7,362
2035	1.30	1.19	5.65	14.7	0.04	0.05	5.33	5.38	0.05	1.31	1.36	—	7,035	7,035	0.12	0.56	3.03	7,208
2036	1.28	1.18	5.53	14.2	0.04	0.05	5.35	5.40	0.05	1.31	1.36	—	6,925	6,925	0.12	0.56	2.55	7,097
2037	1.23	1.13	5.41	13.8	0.04	0.05	5.33	5.38	0.05	1.31	1.36	—	6,791	6,791	0.12	0.56	2.12	6,962
2038	1.18	1.09	5.32	13.6	0.04	0.05	5.33	5.38	0.05	1.31	1.36	—	6,676	6,676	0.11	0.52	1.75	6,837
2039	6.22	6.19	0.71	2.80	< 0.005	0.01	0.82	0.83	0.01	0.20	0.21	—	952	952	0.02	0.05	0.21	967

3. Construction Emissions Details

3.1. Site Preparation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.56	4.58	5.29	0.01	0.19	—	0.19	0.17	—	0.17	1,088	1,088	0.04	0.01	—	1,092
Dust From Material Movement	—	—	—	—	—	4.04	4.04	4.04	2.08	2.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.84	0.97	< 0.005	0.03	—	0.03	0.03	—	0.03	180	180	0.01	< 0.005	—	181
Dust From Material Movement	—	—	—	—	—	0.74	0.74	0.74	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	130	130	< 0.005	< 0.005	0.01	130

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.03	0.03	0.00	0.00	0.01	0.01	0.01	0.01	27.3	< 0.005	< 0.005	0.02	27.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.52	< 0.005	< 0.005	< 0.005	4.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	4.52	4.52	< 0.005	< 0.005	< 0.005	< 0.005	4.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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 Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.17	0.17	0.17	0.00	0.04	0.04	0.04	—	148	148	< 0.005	< 0.005	0.01	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.09	0.09	0.09	0.00	0.02	0.02	0.02	—	81.1	81.1	< 0.005	< 0.005	0.07	81.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (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	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	0.14	—	0.14	0.00	0.00	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	—	9.20	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.39	2.50	18.9	0.03	0.08	—	0.08	0.08	0.08	—	0.08	—	1.95	1.95	—	3,524	3,524	0.14	0.03	—	3,536
Dust From Material Movement	—	—	—	—	—	—	—	4.92	4.92	4.92	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	3.45	0.01	0.01	—	0.01	0.01	0.01	—	0.01	0.01	—	0.01	—	583	583	0.02	< 0.005	—	585
Dust From Material Movement	—	—	—	—	—	—	—	0.90	0.90	0.90	—	0.36	0.36	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.65	0.00	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	—	164	164	< 0.005	< 0.005	0.30	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	—	148	148	< 0.005	< 0.005	0.01	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.00	0.09	0.09	0.00	0.02	0.02	0.02	—	81.1	81.1	< 0.005	< 0.005	0.07	81.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	13.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Building Construction (2032) - Unmitigated

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

[illegible]

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	0.90	7.87	12.8	0.02	0.22	—	—	0.22	0.21	—	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.94	1.53	< 0.005	0.03	—	—	0.03	0.02	—	0.02	—	0.02	—	287	287	0.01	< 0.005	—	—	—	—	288
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	47.5	47.5	< 0.005	< 0.005	—	—	—	—	47.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.49	7.29	5.73	77.1	0.00	0.00	25.3	25.3	0.00	0.00	5.92	0.00	5.92	5.92	—	22,273	22,273	0.46	0.20	1.18	—	—	—	22,345
Vendor	1.33	0.68	33.1	11.4	0.24	0.24	8.96	8.96	0.24	0.24	2.48	0.24	2.48	2.71	—	27,663	27,663	0.39	4.18	0.90	—	—	—	28,921
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.89	0.87	0.57	9.43	0.00	0.00	0.00	3.01	3.01	0.00	0.71	0.71	—	2,734	2,734	0.05	0.02	2.36	2,744
Vendor	0.17	0.09	3.88	1.35	0.03	0.03	0.03	1.07	1.10	0.03	0.30	0.32	—	3,311	3,311	0.05	0.50	1.79	3,463
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.10	1.72	0.00	0.00	0.00	0.55	0.55	0.00	0.13	0.13	—	453	453	0.01	< 0.005	0.39	454
Vendor	0.03	0.02	0.71	0.25	0.01	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	548	548	0.01	0.08	0.30	573
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.42	2.98	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.36	1.79	< 0.005	0.01	—	0.01	0.01	—	0.01	—	287	287	0.01	< 0.005	—	288
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.07	0.33	< 0.005	< 0.005	< 0.005	—	< 0.005	—	47.5	47.5	< 0.005	< 0.005	—	47.7
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.49	7.29	5.73	77.1	0.00	0.00	25.3	25.3	5.92	—	22,273	22,273	0.46	0.20	1.18	22,345
Vendor	1.33	0.68	33.1	11.4	0.24	0.24	9.20	8.96	2.48	—	27,663	27,663	0.39	4.18	0.90	28,921
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.87	0.57	9.43	0.00	0.00	3.01	3.01	0.71	—	2,734	2,734	0.05	0.02	2.36	2,744
Vendor	0.17	0.09	3.88	1.35	0.03	0.03	1.10	1.07	0.30	—	3,311	3,311	0.05	0.50	1.79	3,463
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.10	1.72	0.00	0.00	0.55	0.55	0.13	—	453	453	0.01	< 0.005	0.39	454
Vendor	0.03	0.02	0.71	0.25	0.01	0.01	0.20	0.20	0.06	—	548	548	0.01	0.08	0.30	573
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. 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	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.75	6.57	11.0	0.02	0.17	—	0.17	0.16	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.20	2.00	< 0.005	0.03	—	0.03	0.03	—	340	340	0.01	< 0.005	—	341
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.62	7.49	3.76	93.1	0.00	0.00	25.3	25.3	0.00	5.92	24,276	24,276	0.33	0.20	39.7	24,383
Vendor	1.20	0.75	30.1	10.9	0.24	0.24	8.96	9.20	0.24	2.48	26,767	26,767	0.39	3.95	29.1	27,983
Hauling	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	6.96	4.88	72.6	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	—	—	21,969	21,969	0.40	0.20	1.03	22,040	—	—	—
Vendor	1.09	0.68	32.0	11.2	0.24	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	—	26,798	26,798	0.39	3.95	0.75	27,986	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.08	5.96	4.01	64.5	0.00	0.00	21.6	21.6	21.6	0.00	5.05	5.05	—	—	19,298	19,298	0.34	0.17	14.7	19,372	—	—	—
Vendor	0.98	0.60	26.8	9.43	0.20	0.20	7.65	7.65	7.85	0.20	2.12	2.32	—	—	22,955	22,955	0.33	3.39	10.8	23,983	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.11	1.09	0.73	11.8	0.00	0.00	3.94	3.94	3.94	0.00	0.92	0.92	—	—	3,195	3,195	0.06	0.03	2.43	3,207	—	—	—
Vendor	0.18	0.11	4.90	1.72	0.04	0.04	1.40	1.40	1.43	0.04	0.39	0.42	—	—	3,800	3,800	0.06	0.56	1.78	3,971	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—

3.8. 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	0.47	0.42	2.97	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.47	0.42	2.97	14.9	0.02	0.08	—	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.54	12.8	0.02	0.07	—	0.07	0.07	0.07	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.62	7.49	3.76	93.1	0.00	0.00	25.3	25.3	5.92	5.92	—	24,276	24,276	0.33	0.20	39.7	24,383
Vendor	1.20	0.75	30.1	10.9	0.24	0.24	8.96	9.20	2.48	2.71	—	26,767	26,767	0.39	3.95	29.1	27,983
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	6.96	4.88	72.6	0.00	0.00	25.3	25.3	5.92	5.92	—	21,969	21,969	0.40	0.20	1.03	22,040
Vendor	1.09	0.68	32.0	11.2	0.24	0.24	8.96	9.20	2.48	2.71	—	26,798	26,798	0.39	3.95	0.75	27,986
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	6.08	5.96	4.01	64.5	0.00	0.00	21.6	21.6	0.00	5.05	5.05	—	19,298	19,298	0.34	0.17	14.7	19,372
Vendor	0.98	0.60	26.8	9.43	0.20	0.20	7.65	7.85	0.20	2.12	2.32	—	22,955	22,955	0.33	3.39	10.8	23,983
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.11	1.09	0.73	11.8	0.00	0.00	3.94	3.94	0.00	0.92	0.92	—	3,195	3,195	0.06	0.03	2.43	3,207
Vendor	0.18	0.11	4.90	1.72	0.04	0.04	1.40	1.43	0.04	0.39	0.42	—	3,800	3,800	0.06	0.56	1.78	3,971
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.88	0.74	6.45	10.9	0.02	0.16	—	0.16	—	0.15	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.18	2.00	< 0.005	0.03	—	0.03	0.03	0.03	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	7.02	3.69	89.2	0.00	0.00	25.3	25.3	25.3	5.92	5.92	23,972	23,972	0.27	0.20	34.2	24,072
Vendor	1.20	0.75	29.0	10.6	0.24	0.24	8.96	9.20	9.20	2.71	2.48	25,949	25,949	0.39	3.95	24.5	27,160
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.82	6.69	4.81	69.0	0.00	0.00	25.3	25.3	25.3	5.92	5.92	21,696	21,696	0.40	0.20	0.89	21,766
Vendor	1.09	0.68	31.1	11.0	0.24	0.24	8.96	9.20	9.20	2.71	2.48	25,980	25,980	0.39	3.95	0.63	27,167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.62	3.28	60.9	0.00	0.00	21.6	21.6	21.6	5.05	5.05	19,057	19,057	0.28	0.17	12.7	19,128
Vendor	0.98	0.60	25.9	9.23	0.20	0.20	7.65	7.85	7.85	2.32	2.12	22,253	22,253	0.33	3.39	9.04	23,279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.03	0.60	11.1	0.00	0.00	3.94	3.94	3.94	0.92	0.92	3,155	3,155	0.05	0.03	2.10	3,167
Vendor	0.18	0.11	4.73	1.68	0.04	0.04	1.40	1.43	1.43	0.42	0.39	3,684	3,684	0.06	0.56	1.50	3,854

3.10. 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	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.54	12.8	0.02	0.07	—	0.07	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	7.02	3.69	89.2	0.00	0.00	25.3	25.3	0.00	5.92	5.92	—	23,972	23,972	0.27	0.20	34.2	24,072
Vendor	1.20	0.75	29.0	10.6	0.24	0.24	9.20	8.96	0.24	2.48	2.71	—	25,949	25,949	0.39	3.95	24.5	27,160
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.82	6.69	4.81	69.0	0.00	0.00	25.3	25.3	0.00	5.92	5.92	—	21,696	21,696	0.40	0.20	0.89	21,766
Vendor	1.09	0.68	31.1	11.0	0.24	0.24	9.20	8.96	0.24	2.48	2.71	—	25,980	25,980	0.39	3.95	0.63	27,167
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.62	3.28	60.9	0.00	0.00	21.6	21.6	0.00	5.05	5.05	—	19,057	19,057	0.28	0.17	12.7	19,128
Vendor	0.98	0.60	25.9	9.23	0.20	0.20	7.85	7.65	0.20	2.12	2.32	—	22,253	22,253	0.33	3.39	9.04	23,279
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.03	0.60	11.1	0.00	0.00	3.94	3.94	0.00	0.92	0.92	—	3,155	3,155	0.05	0.03	2.10	3,167
Vendor	0.18	0.11	4.73	1.68	0.04	0.04	1.43	1.40	0.04	0.39	0.42	—	3,684	3,684	0.06	0.56	1.50	3,854
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. 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
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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	—	0.17	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.34	12.7	0.02	0.18	—	0.18	0.17	—	0.17	—	0.17	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	6.29	10.9	0.02	0.15	—	0.15	0.14	—	0.14	—	0.14	—	2,054	2,054	0.08	0.02	—	—	—	—	—	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.15	1.98	< 0.005	0.03	—	0.03	0.03	—	0.03	—	0.03	—	340	340	0.01	< 0.005	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.02	6.96	3.69	85.3	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	5.92	—	23,702	23,702	0.27	0.20	29.3	23,797	23,797	23,797	23,797	23,797
Vendor	1.20	0.75	28.1	10.4	0.24	0.24	8.96	8.96	8.96	0.24	2.48	2.71	2.71	—	25,184	25,184	0.39	3.71	20.3	26,320	26,320	26,320	26,320	26,320
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.69	6.56	4.75	66.3	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	5.92	—	21,452	21,452	0.40	0.20	0.76	21,522	21,522	21,522	21,522	21,522
Vendor	1.09	0.68	30.0	10.7	0.24	0.24	8.96	8.96	8.96	0.24	2.48	2.71	2.71	—	25,215	25,215	0.39	3.71	0.53	26,332	26,332	26,332	26,332	26,332
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.56	3.28	58.8	0.00	0.00	21.6	21.6	21.6	0.00	5.05	5.05	5.05	—	18,842	18,842	0.28	0.17	10.8	18,911	18,911	18,911	18,911	18,911
Vendor	0.98	0.60	25.2	9.01	0.20	0.20	7.65	7.65	7.65	0.20	2.12	2.32	2.32	—	21,597	21,597	0.33	3.18	7.51	22,562	22,562	22,562	22,562	22,562
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.02	0.60	10.7	0.00	0.00	3.94	3.94	3.94	0.00	0.92	0.92	0.92	—	3,120	3,120	0.05	0.03	1.79	3,131	3,131	3,131	3,131	3,131
Vendor	0.18	0.11	4.59	1.64	0.04	0.04	1.40	1.40	1.40	0.04	0.39	0.42	0.42	—	3,576	3,576	0.06	0.53	1.24	3,735	3,735	3,735	3,735	3,735
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. 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 Equipm	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.53	12.8	0.02	0.07	—	0.07	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.02	6.96	3.69	85.3	0.00	25.3	25.3	25.3	0.00	5.92	5.92	—	23,702	23,702	0.27	0.20	29.3	23,797
Vendor	1.20	0.75	28.1	10.4	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	25,184	25,184	0.39	3.71	20.3	26,320
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.69	6.56	4.75	66.3	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	5.92	—	21,452	21,452	0.40	0.20	0.76	21,522	
Vendor	1.09	0.68	30.0	10.7	0.24	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	25,215	25,215	0.39	3.71	0.53	26,332		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	5.74	5.56	3.28	58.8	0.00	0.00	21.6	21.6	21.6	0.00	5.05	5.05	5.05	—	18,842	18,842	0.28	0.17	10.8	18,911	
Vendor	0.98	0.60	25.2	9.01	0.20	0.20	7.65	7.65	7.85	0.20	2.12	2.32	—	21,597	21,597	0.33	3.18	7.51	22,562		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	1.05	1.02	0.60	10.7	0.00	0.00	3.94	3.94	3.94	0.00	0.92	0.92	—	3,120	3,120	0.05	0.03	1.79	3,131		
Vendor	0.18	0.11	4.59	1.64	0.04	0.04	1.40	1.40	1.43	0.04	0.39	0.42	—	3,576	3,576	0.06	0.53	1.24	3,735		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		

3.13. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.12	10.8	0.02	0.14	—	0.14	—	0.13	—	0.13	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.12	1.98	< 0.005	0.03	—	0.03	—	0.02	—	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.82	6.69	3.63	81.5	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	—	23,459	23,459	0.27	0.20	24.9	23,550
Vendor	1.17	0.73	27.5	10.4	0.24	0.24	8.96	9.20	9.20	0.24	2.48	2.71	—	24,494	24,494	0.39	3.71	16.6	25,627
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.56	6.43	3.89	63.7	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	—	21,233	21,233	0.33	0.20	0.65	21,301
Vendor	1.09	0.68	29.4	10.7	0.24	0.24	8.96	9.20	9.20	0.24	2.48	2.71	—	24,526	24,526	0.39	3.71	0.43	25,643
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	5.64	5.52	3.23	56.2	0.00	0.00	21.6	21.6	0.00	5.07	5.07	—	18,701	18,701	0.29	0.17	9.27	18,769
Vendor	0.98	0.60	24.5	9.03	0.20	0.20	7.67	7.88	0.20	2.12	2.32	—	21,064	21,064	0.34	3.19	6.17	22,030
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.03	1.01	0.59	10.3	0.00	0.00	3.95	3.95	0.00	0.92	0.92	—	3,096	3,096	0.05	0.03	1.53	3,107
Vendor	0.18	0.11	4.48	1.65	0.04	0.04	1.40	1.44	0.04	0.39	0.42	—	3,487	3,487	0.06	0.53	1.02	3,647
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. 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	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.53	12.8	0.02	0.07	—	0.07	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	0.01	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.82	6.69	3.63	81.5	0.00	0.00	25.3	25.3	5.92	5.92	—	23,459	23,459	0.27	0.20	24.9	23,550
Vendor	1.17	0.73	27.5	10.4	0.24	0.24	8.96	9.20	2.71	2.48	—	24,494	24,494	0.39	3.71	16.6	25,627
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.56	6.43	3.89	63.7	0.00	0.00	25.3	25.3	5.92	5.92	—	21,233	21,233	0.33	0.20	0.65	21,301
Vendor	1.09	0.68	29.4	10.7	0.24	0.24	8.96	9.20	2.71	2.48	—	24,526	24,526	0.39	3.71	0.43	25,643
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.64	5.52	3.23	56.2	0.00	0.00	21.6	21.6	5.07	5.07	—	18,701	18,701	0.29	0.17	9.27	18,769
Vendor	0.98	0.60	24.5	9.03	0.20	0.20	7.67	7.88	2.32	2.12	—	21,064	21,064	0.34	3.19	6.17	22,030
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.03	1.01	0.59	10.3	0.00	0.00	3.95	3.95	0.92	0.92	—	3,096	3,096	0.05	0.03	1.53	3,107
Vendor	0.18	0.11	4.48	1.65	0.04	0.04	1.40	1.44	0.39	0.42	—	3,487	3,487	0.06	0.53	1.02	3,647

3.15. 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	5.99	10.7	0.02	0.14	—	0.14	0.12	—	0.12	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.15	0.13	1.09	1.96	< 0.005	0.02	—	0.02	—	0.02	—	340	0.01	< 0.005	—	341
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.49	6.36	2.84	79.4	0.00	0.00	25.3	25.3	5.92	5.92	—	23,247	0.27	0.20	21.1	23,334
Vendor	1.17	0.73	26.9	10.1	0.24	0.24	9.20	8.96	2.48	2.71	—	23,880	0.39	3.71	13.4	25,010
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.29	6.16	3.82	61.3	0.00	0.00	25.3	25.3	5.92	5.92	—	21,042	0.33	0.20	0.55	21,110
Vendor	1.09	0.68	28.6	10.4	0.24	0.24	9.20	8.96	2.48	2.71	—	23,912	0.39	3.71	0.35	25,029
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.34	5.22	3.16	54.1	0.00	0.00	21.6	21.6	5.05	5.05	—	18,482	0.28	0.17	7.82	18,548
Vendor	0.98	0.60	24.0	8.81	0.20	0.20	7.85	7.65	2.12	2.32	—	20,480	0.33	3.18	4.97	21,442
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.58	9.88	0.00	0.00	3.94	3.94	0.92	0.92	—	3,060	0.05	0.03	1.29	3,071
Vendor	0.18	0.11	4.37	1.61	0.04	0.04	1.43	1.40	0.39	0.42	—	3,391	0.06	0.53	0.82	3,550
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.16. 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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.49	6.36	2.84	79.4	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	5.92	—	23,247	23,247	0.27	0.20	21.1	23,334			
Vendor	1.17	0.73	26.9	10.1	0.24	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	23,880	23,880	0.39	3.71	13.4	25,010				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	6.29	6.16	3.82	61.3	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	—	21,042	21,042	0.33	0.20	0.55	21,110				
Vendor	1.09	0.68	28.6	10.4	0.24	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	23,912	23,912	0.39	3.71	0.35	25,029				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	5.34	5.22	3.16	54.1	0.00	0.00	21.6	21.6	21.6	0.00	5.05	5.05	—	18,482	18,482	0.28	0.17	7.82	18,548				
Vendor	0.98	0.60	24.0	8.81	0.20	0.20	7.65	7.65	7.85	0.20	2.12	2.32	—	20,480	20,480	0.33	3.18	4.97	21,442				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.97	0.95	0.58	9.88	0.00	0.00	3.94	3.94	3.94	0.00	0.92	0.92	—	3,060	3,060	0.05	0.03	1.29	3,071				
Vendor	0.18	0.11	4.37	1.61	0.04	0.04	1.40	1.40	1.43	0.04	0.39	0.42	—	3,391	3,391	0.06	0.53	0.82	3,550				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

3.17. Building Construction (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 Equipm	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.70	5.91	10.7	0.02	0.13	—	0.13	0.12	—	0.12	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.08	1.95	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.29	6.16	2.77	77.3	0.00	0.00	25.3	25.3	0.00	5.92	0.00	—	22,972	22,972	0.27	0.20	17.8	23,056
Vendor	1.17	0.73	26.4	10.1	0.24	0.24	8.96	8.96	0.24	2.48	2.71	—	23,328	23,328	0.39	3.48	10.7	24,385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.96	5.04	3.82	59.0	0.00	0.00	25.3	25.3	25.3	0.00	5.92	5.92	5.92	—	20,790	20,790	0.33	0.20	0.46	20,858				
Vendor	1.09	0.68	28.0	10.4	0.24	0.24	8.96	8.96	9.20	0.24	2.48	2.71	—	23,360	23,360	0.36	3.48	0.28	24,406					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	5.11	5.00	3.16	52.9	0.00	0.00	21.6	21.6	21.6	0.00	5.05	5.05	—	18,261	18,261	0.23	0.17	6.59	18,325					
Vendor	0.98	0.60	23.5	8.81	0.20	0.20	7.65	7.65	7.85	0.20	2.12	2.32	—	20,007	20,007	0.33	2.98	3.98	20,908					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	0.93	0.91	0.58	9.66	0.00	0.00	3.94	3.94	3.94	0.00	0.92	0.92	—	3,023	3,023	0.04	0.03	1.09	3,034					
Vendor	0.18	0.11	4.28	1.61	0.04	0.04	1.40	1.40	1.43	0.04	0.39	0.42	—	3,312	3,312	0.06	0.49	0.66	3,461					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.18. Building Construction (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	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	0.06	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.46	2.33	< 0.005	0.01	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.29	6.16	2.77	77.3	0.00	0.00	25.3	25.3	5.92	5.92	—	22,972	22,972	0.27	0.20	17.8	23,056
Vendor	1.17	0.73	26.4	10.1	0.24	0.24	8.96	8.96	2.48	2.71	—	23,328	23,328	0.39	3.48	10.7	24,385
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.96	5.04	3.82	59.0	0.00	0.00	25.3	25.3	5.92	5.92	—	20,790	20,790	0.33	0.20	0.46	20,858
Vendor	1.09	0.68	28.0	10.4	0.24	0.24	8.96	8.96	2.48	2.71	—	23,360	23,360	0.36	3.48	0.28	24,406
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	5.11	5.00	3.16	52.9	0.00	0.00	21.6	21.6	0.00	5.05	5.05	—	18,261	18,261	0.23	0.17	6.59	18,325
Vendor	0.98	0.60	23.5	8.81	0.20	0.20	7.65	7.85	0.20	2.12	2.32	—	20,007	20,007	0.33	2.98	3.98	20,908
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.93	0.91	0.58	9.66	0.00	0.00	3.94	3.94	0.00	0.92	0.92	—	3,023	3,023	0.04	0.03	1.09	3,034
Vendor	0.18	0.11	4.28	1.61	0.04	0.04	1.40	1.43	0.04	0.39	0.42	—	3,312	3,312	0.06	0.49	0.66	3,461
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.51	0.93	< 0.005	0.01	—	0.01	0.01	—	0.01	—	180	180	0.01	< 0.005	—	181
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.09	0.17	< 0.005	< 0.005	< 0.005	—	< 0.005	—	29.8	< 0.005	< 0.005	< 0.005	—	29.9
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.83	4.91	3.76	57.6	0.00	0.00	25.3	25.3	5.92	5.92	20,644	0.33	0.20	0.39	20,712	
Vendor	1.09	0.68	27.7	10.2	0.24	0.24	9.20	8.96	2.48	2.71	22,868	0.36	3.48	0.22	23,914	
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.36	0.27	4.48	0.00	0.00	1.89	1.89	0.44	0.44	1,590	0.02	0.01	0.48	1,595	
Vendor	0.09	0.05	2.01	0.75	0.02	0.02	0.69	0.67	0.19	0.20	1,717	0.03	0.26	0.28	1,796	
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.82	0.00	0.00	0.35	0.35	0.08	0.08	263	< 0.005	< 0.005	0.08	264	
Vendor	0.02	0.01	0.37	0.14	< 0.005	< 0.005	0.13	0.12	0.03	0.04	284	< 0.005	0.04	0.05	297	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	0.07	0.07	—	0.07	0.07	0.07	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.22	1.12	< 0.005	0.01	0.01	0.01	—	0.01	0.01	0.01	—	180	180	0.01	< 0.005	—	—	—	—	—	—	181
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.20	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	29.8	29.8	< 0.005	< 0.005	—	—	—	—	—	—	29.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.83	4.91	3.76	57.6	0.00	0.00	0.00	0.00	25.3	25.3	0.00	5.92	5.92	20,644	20,644	0.33	0.20	0.39	—	—	—	—	—	20,712
Vendor	1.09	0.68	27.7	10.2	0.24	0.24	8.96	9.20	0.24	0.24	0.24	2.71	2.48	22,868	22,868	0.36	3.48	0.22	—	—	—	—	—	23,914
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.43	0.36	0.27	4.48	0.00	0.00	1.89	1.89	0.00	0.44	0.44	—	1,590	1,590	0.02	0.01	0.48	1,595
Vendor	0.09	0.05	2.01	0.75	0.02	0.02	0.67	0.67	0.02	0.19	0.20	—	1,717	1,717	0.03	0.26	0.28	1,796
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.82	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	263	263	< 0.005	< 0.005	0.08	264
Vendor	0.02	0.01	0.37	0.14	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	284	284	< 0.005	0.04	0.05	297
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. 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	2.27	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	2.27	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	6.60	< 0.005	< 0.005	< 0.005	< 0.005	6.63	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.22. 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	0.29	0.27	2.14	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.27	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.27	2.14	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.27	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.11	0.10	0.81	3.96	0.01	0.02	—	0.02	—	0.02	—	571	571	0.02	< 0.005	—	573
Paving	0.86	0.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.72	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	94.6	94.6	< 0.005	< 0.005	—	94.9
Paving	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.38	0.00	0.00	0.13	0.13	0.03	0.03	—	114	114	< 0.005	< 0.005	0.07	114
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.29	0.00	0.00	0.13	0.13	0.03	0.03	—	103	103	< 0.005	< 0.005	< 0.005	103
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.05	0.05	0.01	0.01	—	39.9	39.9	< 0.005	< 0.005	0.01	40.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.60	6.60	< 0.005	< 0.005	< 0.005	6.63
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Architectural Coating (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	0.11	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	253	253	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	253	253	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.41	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	50.7
Architectural Coatings	95.8	95.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.39
Architectural Coatings	17.5	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.19	1.01	0.55	15.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,578
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.17	0.98	0.75	11.5	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	0.00	0.00	0.00	0.00	0.00	0.00	4,142
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.27	4.51	0.00	0.00	1.90	0.00	0.45	0.45	1.90	0.00	0.00	1,600	0.02	0.02	0.49	1,605	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.82	0.00	0.00	0.35	0.00	0.08	0.08	0.35	0.00	0.00	265	< 0.005	< 0.005	0.08	266	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Architectural Coating (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	0.11	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	84.9	84.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	84.9	84.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.41	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	50.7
Architectural Coatings	32.1	32.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	8.36	8.36	< 0.005	< 0.005	—	8.39
Architectural Coatings	5.86	5.86	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.19	1.01	0.55	15.1	0.00	0.00	5.05	5.05	1.18	1.18	—	4,562	4,562	0.05	0.04	2.98	4,578

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.17	0.98	0.75	11.5	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	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.37	0.27	4.51	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
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.82	0.00	0.00	0.00	0.35	0.35	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.82	0.00	0.00	0.00	0.35	0.35	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

[illegible]

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
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[illegible]

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	1/1/2032	3/28/2032	6.00	75.0	—
Grading	Grading	3/29/2032	11/10/2032	6.00	195	—
Building Construction	Building Construction	11/11/2032	2/1/2039	6.00	1,949	—
Paving	Paving	2/2/2039	7/12/2039	6.00	138	—
Architectural Coating	Architectural Coating	7/13/2039	12/20/2039	6.00	138	—

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	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	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	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	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
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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	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	3,008	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,174	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	602	11.9	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	3,008	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,174	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	602	11.9	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	10,743,450	3,581,150	378,390

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	113	0.00	—
Grading	—	—	585	0.00	—
Paving	0.00	0.00	0.00	0.00	145

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
Industrial Park	0.00	0%
Parking Lot	37.8	100%

Other Non-Asphalt Surfaces	25.3	0%
City Park	0.00	0%
Other Asphalt Surfaces	81.6	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2033	0.00	204	0.03	< 0.005
2034	0.00	204	0.03	< 0.005
2035	0.00	204	0.03	< 0.005
2036	0.00	204	0.03	< 0.005
2037	0.00	204	0.03	< 0.005
2038	0.00	204	0.03	< 0.005
2039	0.00	204	0.03	< 0.005
2032	0.00	204	0.03	< 0.005

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2

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	61.0			
AQ-PM	26.8			
AQ-DPM	15.7			
Drinking Water	60.1			
Lead Risk Housing	17.3			
Pesticides	83.8			
Toxic Releases	18.1			
Traffic	25.4			
Effect Indicators	—			
CleanUp Sites	89.4			
Groundwater	97.2			
Haz Waste Facilities/Generators	99.4			
Impaired Water Bodies	93.4			
Solid Waste	93.2			

Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708

Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
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Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land uses are based on Project-specific information.
Construction: Construction Phases	Project-specific construction schedule.

Pacific Gateway (Central Development Area Construction) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Central Development Area Construction)
Construction Start Date	1/1/2038
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	6,857	1000sqft	198	6,856,500	1,786,304	—	—	—
Parking Lot	1,823	1000sqft	41.9	0.00	0.00	—	—	—

Other Asphalt Surfaces	4,015	1000sqft	92.2	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	1,299	1000sqft	29.8	0.00	0.00	—	—	—
City Park	72.4	Acre	72.4	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	196	196	34.1	93.9	0.25	0.61	32.8	33.1	0.56	10.1	10.7	—	46.095	46,095	0.70	3.54	22.4	47,189
Mit.	67.6	67.4	30.3	96.4	0.25	0.30	32.8	33.1	0.30	10.1	10.2	—	46.095	46,095	0.70	3.54	22.4	47,189
% Reduced	66%	66%	11%	-3%	—	51%	—	< 0.5%	47%	—	4%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	196	196	36.9	77.3	0.25	0.61	32.8	33.1	0.56	10.1	10.7	—	44,051	44,051	0.76	3.54	0.58	45,125
Mit.	67.5	67.4	33.0	79.8	0.25	0.30	32.8	33.1	0.30	10.1	10.2	—	44,051	44,051	0.76	3.54	0.58	45,125
% Reduced	66%	66%	10%	-3%	—	51%	—	< 0.5%	47%	—	4%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	93.8	93.8	29.9	67.0	0.21	0.47	28.1	28.4	0.43	6.88	7.19	—	37,798	37,798	0.60	3.04	7.55	38,727	38,727	
Mit.	32.8	32.8	26.6	69.1	0.21	0.26	28.1	28.3	0.26	6.88	7.14	—	37,798	37,798	0.60	3.04	7.55	38,727	38,727	
% Reduced	65%	65%	11%	-3%	—	45%	—	< 0.5%	41%	—	1%	—	—	—	—	—	—	—	—	
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Unmit.	17.1	17.1	5.45	12.2	0.04	0.09	5.12	5.18	0.08	1.26	1.31	—	6,258	6,258	0.10	0.50	1.25	6,412	6,412	
Mit.	5.98	5.98	4.86	12.6	0.04	0.05	5.12	5.17	0.05	1.26	1.30	—	6,258	6,258	0.10	0.50	1.25	6,412	6,412	
% Reduced	65%	65%	11%	-3%	—	45%	—	< 0.5%	41%	—	1%	—	—	—	—	—	—	—	—	

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.69	2.26	16.5	23.7	0.06	0.61	19.8	20.4	0.56	10.1	10.7	—	6,749	6,749	0.27	0.05	0.12	6,772
2039	7.79	6.33	34.1	93.9	0.25	0.37	32.8	33.1	0.36	8.04	8.40	—	46,095	46,095	0.70	3.54	22.4	47,189
2040	7.46	6.09	33.7	92.1	0.25	0.37	32.8	33.1	0.36	8.04	8.40	—	45,538	45,538	0.64	3.54	18.2	46,627
2041	7.33	5.96	33.1	91.0	0.25	0.36	32.8	33.1	0.35	8.04	8.39	—	45,045	45,045	0.64	3.54	14.8	46,131
2042	7.14	5.70	32.8	89.8	0.25	0.36	32.8	33.1	0.35	8.04	8.39	—	44,608	44,608	0.64	3.31	12.0	45,624
2043	6.94	5.55	32.4	88.8	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	44,227	44,227	0.64	3.31	9.61	45,240
2044	6.62	5.41	32.0	87.8	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	43,899	43,899	0.64	3.25	7.71	44,892
2045	6.48	5.34	31.7	87.7	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	43,615	43,615	0.64	3.25	6.16	44,606
2046	6.42	5.27	31.6	86.8	0.25	0.34	32.8	33.1	0.33	8.04	8.37	—	43,370	43,370	0.64	3.25	4.90	44,360
2047	196	196	5.02	14.1	0.01	0.07	4.84	4.84	0.07	1.13	1.14	—	4,368	4,368	0.06	0.03	0.61	4,377

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.69	2.26	17.9	23.6	0.07	0.61	19.8	20.4	0.56	10.1	10.7	—	—	7,866	7,866	0.27	0.71	0.08	8,081	—
2039	7.59	6.15	36.9	77.3	0.25	0.50	32.8	33.1	0.46	8.04	8.40	—	—	44,051	44,051	0.76	3.54	0.58	45,125	—
2040	7.26	5.83	36.3	76.0	0.25	0.37	32.8	33.1	0.36	8.04	8.40	—	—	43,508	43,508	0.76	3.54	0.47	44,582	—
2041	7.07	5.63	35.9	74.8	0.25	0.36	32.8	33.1	0.35	8.04	8.39	—	—	43,026	43,026	0.70	3.54	0.38	44,099	—
2042	7.00	5.57	34.6	73.4	0.25	0.36	32.8	33.1	0.35	8.04	8.39	—	—	42,599	42,599	0.70	3.31	0.31	43,604	—
2043	6.87	5.50	34.2	73.1	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	—	42,226	42,226	0.70	3.31	0.25	43,232	—
2044	6.44	5.30	33.8	72.0	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	—	41,905	41,905	0.70	3.31	0.20	42,911	—
2045	5.62	5.20	33.7	71.7	0.25	0.35	32.8	33.1	0.34	8.04	8.38	—	—	41,628	41,628	0.70	3.31	0.16	42,633	—
2046	5.55	5.10	33.4	71.6	0.25	0.34	32.8	33.1	0.33	8.04	8.37	—	—	41,388	41,388	0.70	3.31	0.13	42,393	—
2047	196	196	5.02	11.0	0.01	0.07	4.84	4.84	0.07	1.13	1.14	—	—	3,966	3,966	0.06	0.04	0.02	3,979	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	2.25	1.89	12.9	19.3	0.05	0.47	10.7	11.2	0.43	4.80	5.23	—	—	5,438	5,438	0.22	0.05	0.06	5,458	—
2039	6.10	4.93	29.1	63.5	0.20	0.33	26.2	26.5	0.32	6.53	6.84	—	—	35,235	35,235	0.57	2.76	7.55	36,080	—
2040	6.29	5.10	29.9	67.0	0.21	0.32	28.1	28.4	0.31	6.88	7.19	—	—	37,798	37,798	0.60	3.04	6.77	38,727	—
2041	6.05	4.87	29.3	65.8	0.21	0.31	28.0	28.3	0.30	6.86	7.16	—	—	37,280	37,280	0.60	3.03	5.48	38,204	—
2042	5.93	4.76	29.0	64.7	0.21	0.31	28.0	28.3	0.30	6.86	7.16	—	—	36,912	36,912	0.60	2.84	4.42	37,778	—
2043	5.87	4.64	28.7	64.4	0.21	0.30	28.0	28.3	0.30	6.86	7.16	—	—	36,591	36,591	0.60	2.84	3.56	37,456	—
2044	5.58	4.58	28.5	63.7	0.21	0.30	28.1	28.4	0.29	6.88	7.17	—	—	36,414	36,414	0.60	2.85	2.86	37,280	—
2045	5.50	4.45	28.0	63.4	0.21	0.30	28.0	28.3	0.29	6.86	7.15	—	—	36,075	36,075	0.55	2.84	2.27	36,937	—
2046	4.89	4.03	24.7	55.8	0.19	0.26	24.2	24.4	0.25	5.93	6.18	—	—	31,144	31,144	0.48	2.45	1.57	31,889	—
2047	93.8	93.8	2.38	8.92	0.01	0.03	2.33	2.36	0.02	0.55	0.57	—	—	2,497	2,497	0.04	0.02	0.13	2,505	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.41	0.35	2.35	3.53	0.01	0.09	1.95	2.04	0.08	0.88	0.95	—	—	900	900	0.04	0.01	0.01	904	—
2039	1.11	0.90	5.31	11.6	0.04	0.06	4.78	4.84	0.06	1.19	1.25	—	—	5,834	5,834	0.09	0.46	1.25	5,973	—
2040	1.15	0.93	5.45	12.2	0.04	0.06	5.12	5.18	0.06	1.26	1.31	—	—	6,258	6,258	0.10	0.50	1.12	6,412	—

2041	1.10	0.89	5.35	12.0	0.04	0.06	5.11	5.16	0.05	1.25	1.31	—	6,172	6,172	0.10	0.50	0.91	6,325
2042	1.08	0.87	5.29	11.8	0.04	0.06	5.11	5.16	0.05	1.25	1.31	—	6,111	6,111	0.10	0.47	0.73	6,255
2043	1.07	0.85	5.24	11.8	0.04	0.06	5.11	5.16	0.05	1.25	1.31	—	6,058	6,058	0.10	0.47	0.59	6,201
2044	1.02	0.83	5.19	11.6	0.04	0.05	5.12	5.17	0.05	1.26	1.31	—	6,029	6,029	0.10	0.47	0.47	6,172
2045	1.00	0.81	5.12	11.6	0.04	0.05	5.11	5.16	0.05	1.25	1.31	—	5,973	5,973	0.09	0.47	0.38	6,115
2046	0.89	0.74	4.51	10.2	0.03	0.05	4.41	4.46	0.05	1.08	1.13	—	5,156	5,156	0.08	0.41	0.26	5,280
2047	17.1	17.1	0.43	1.63	< 0.005	< 0.005	0.42	0.43	< 0.005	0.10	0.10	—	413	413	0.01	< 0.005	0.02	415

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
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.79	0.77	4.61	35.9	0.06	0.13	19.8	19.9	0.13	10.1	10.2	—	6,749	6,749	0.27	0.05	0.12	6,772
2039	7.29	5.94	30.3	96.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	46,095	46,095	0.70	3.54	22.4	47,189
2040	6.97	5.71	29.9	94.6	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	45,538	45,538	0.64	3.54	18.2	46,627
2041	6.84	5.58	29.4	93.6	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	45,045	45,045	0.64	3.54	14.8	46,131
2042	6.65	5.33	29.1	92.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	44,608	44,608	0.64	3.31	12.0	45,624
2043	6.46	5.18	28.8	91.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	44,227	44,227	0.64	3.31	9.61	45,240
2044	6.15	5.05	28.5	90.5	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	43,899	43,899	0.64	3.25	7.71	44,892
2045	6.02	4.98	28.2	90.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	43,615	43,615	0.64	3.25	6.16	44,606
2046	5.96	4.92	28.2	89.6	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	43,370	43,370	0.64	3.25	4.90	44,360
2047	67.6	67.4	2.09	14.1	0.01	0.04	4.84	4.84	0.04	1.13	1.14	—	4,368	4,368	0.06	0.03	0.61	4,377
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.83	0.76	10.4	35.7	0.07	0.15	19.8	19.9	0.14	10.1	10.2	—	7,866	7,866	0.27	0.71	0.08	8,081
2039	7.09	5.76	33.0	79.8	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	44,051	44,051	0.76	3.54	0.58	45,125

2040	6.77	5.44	32.5	78.5	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	43,508	43,508	0.76	3.54	0.47	44,582
2041	6.58	5.25	32.2	77.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	43,026	43,026	0.70	3.54	0.38	44,099
2042	6.52	5.19	30.9	76.0	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	42,599	42,599	0.70	3.31	0.31	43,604
2043	6.39	5.13	30.6	75.7	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	42,226	42,226	0.70	3.31	0.25	43,232
2044	5.97	4.94	30.3	74.7	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	41,905	41,905	0.70	3.31	0.20	42,911
2045	5.15	4.85	30.2	74.5	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	41,628	41,628	0.70	3.31	0.16	42,633
2046	5.09	4.74	30.0	74.4	0.25	0.30	32.8	33.1	0.30	8.04	8.34	—	41,388	41,388	0.70	3.31	0.13	42,393
2047	67.5	67.4	2.09	11.0	0.01	0.04	4.84	4.84	0.04	1.13	1.14	—	3,966	3,966	0.06	0.04	0.02	3,979
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.61	0.59	3.49	28.6	0.05	0.10	10.7	10.8	0.10	4.80	4.90	—	5,438	5,438	0.22	0.05	0.06	5,458
2039	5.58	4.52	25.4	66.4	0.20	0.24	26.2	26.4	0.24	6.53	6.77	—	35,235	35,235	0.57	2.76	7.55	36,080
2040	5.86	4.78	26.6	69.1	0.21	0.26	28.1	28.3	0.26	6.88	7.14	—	37,798	37,798	0.60	3.04	6.77	38,727
2041	5.63	4.54	26.1	68.0	0.21	0.26	28.0	28.2	0.25	6.86	7.12	—	37,280	37,280	0.60	3.03	5.48	38,204
2042	5.52	4.44	25.8	66.9	0.21	0.26	28.0	28.2	0.25	6.86	7.12	—	36,912	36,912	0.60	2.84	4.42	37,778
2043	5.46	4.33	25.6	66.7	0.21	0.26	28.0	28.2	0.25	6.86	7.12	—	36,591	36,591	0.60	2.84	3.56	37,456
2044	5.18	4.26	25.4	66.0	0.21	0.26	28.1	28.3	0.26	6.88	7.14	—	36,414	36,414	0.60	2.85	2.86	37,280
2045	5.11	4.14	25.0	65.8	0.21	0.26	28.0	28.2	0.25	6.86	7.12	—	36,075	36,075	0.55	2.84	2.27	36,937
2046	4.52	3.75	21.8	57.9	0.19	0.23	24.2	24.4	0.22	5.93	6.15	—	31,144	31,144	0.48	2.45	1.57	31,889
2047	32.8	32.8	1.34	9.19	0.01	0.02	2.33	2.34	0.02	0.55	0.56	—	2,497	2,497	0.04	0.02	0.13	2,505
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2038	0.11	0.11	0.64	5.22	0.01	0.02	1.95	1.97	0.02	0.88	0.89	—	900	900	0.04	0.01	0.01	904
2039	1.02	0.82	4.63	12.1	0.04	0.04	4.78	4.82	0.04	1.19	1.24	—	5,834	5,834	0.09	0.46	1.25	5,973
2040	1.07	0.87	4.86	12.6	0.04	0.05	5.12	5.17	0.05	1.26	1.30	—	6,258	6,258	0.10	0.50	1.12	6,412
2041	1.03	0.83	4.77	12.4	0.04	0.05	5.11	5.15	0.05	1.25	1.30	—	6,172	6,172	0.10	0.50	0.91	6,325
2042	1.01	0.81	4.71	12.2	0.04	0.05	5.11	5.15	0.05	1.25	1.30	—	6,111	6,111	0.10	0.47	0.73	6,255
2043	1.00	0.79	4.67	12.2	0.04	0.05	5.11	5.15	0.05	1.25	1.30	—	6,058	6,058	0.10	0.47	0.59	6,201
2044	0.94	0.78	4.64	12.1	0.04	0.05	5.12	5.17	0.05	1.26	1.30	—	6,029	6,029	0.10	0.47	0.47	6,172
2045	0.93	0.76	4.57	12.0	0.04	0.05	5.11	5.15	0.05	1.25	1.30	—	5,973	5,973	0.09	0.47	0.38	6,115

2046	0.83	0.68	3.99	10.6	0.03	0.04	4.41	4.45	0.04	1.08	1.12	—	5,156	5,156	0.08	0.41	0.26	5,280
2047	5.98	5.98	0.24	1.68	< 0.005	< 0.005	0.42	0.43	< 0.005	0.10	0.10	—	413	413	0.01	< 0.005	0.02	415

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	1.60	12.4	13.2	0.03	0.40	—	0.40	0.37	—	0.37	—	3,426	3,426	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	7.35	7.35	—	1.11	1.11	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.5	37.5	< 0.005	< 0.005	—	37.7
Demolition	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	< 0.005	—	< 0.005	—	6.22	6.22	< 0.005	< 0.005	—	6.24
Demolition	—	—	—	—	—	0.01	0.01	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	104	< 0.005	< 0.005	< 0.005	104
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.15	0.09	5.50	1.38	0.04	0.07	1.53	1.61	0.07	0.42	0.49	4,336	0.05	0.68	0.08	4,539
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.16	< 0.005	< 0.005	< 0.005	1.17
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	47.5	< 0.005	0.01	0.01	49.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.19	< 0.005	< 0.005	< 0.005	0.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	47.5	< 0.005	0.01	0.01	49.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.19	< 0.005	< 0.005	< 0.005	0.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.86	< 0.005	< 0.005	< 0.005	8.23

3.2. Demolition (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, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	104	104	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	104
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.15	0.09	5.50	1.38	0.04	0.07	1.53	1.53	0.07	0.42	0.49	0.49	—	4,336	4,336	0.05	0.68	0.08	0.08	0.08	0.08	0.08	4,539	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	—	1.16	1.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.17	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	0.01	—	47.5	47.5	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	49.7	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.86	7.86	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.23	

3.3. Site Preparation (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	2.65	2.23	16.5	20.3	0.05	0.61	—	0.61	0.56	—	0.56	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.65	2.23	16.5	20.3	0.05	0.61	—	19.7	19.7	0.61	0.56	—	0.56	0.00	0.21	5,296	5,296	0.04	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	19.7	0.61	10.1	10.1	10.1	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.25	5.23	0.01	0.16	—	0.16	0.15	0.16	0.15	—	0.15	0.00	0.06	1,364	1,364	0.01	1,369
Dust From Material Movement	—	—	—	—	—	—	5.06	5.06	5.06	5.06	2.60	2.60	2.60	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.78	0.95	< 0.005	0.03	—	0.03	0.03	0.03	0.03	—	0.03	0.00	0.01	226	226	< 0.005	227
Dust From Material Movement	—	—	—	—	—	—	0.92	0.92	0.92	0.92	0.47	0.47	0.47	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Off-Road	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	19.7	19.7	19.7	—	10.1	10.1	—	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	19.7	19.7	19.7	—	10.1	10.1	—	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.67	7.29	0.01	0.03	—	0.03	0.03	—	0.03	—	0.03	—	1,364	1,364	0.06	0.01	—	1,369
Dust From Material Movement	—	—	—	—	—	5.06	5.06	5.06	—	2.60	2.60	—	2.60	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	1.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	226	226	0.01	< 0.005	—	227

Dust From Material Movement	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.45	0.00	0.00	0.15	0.15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	134
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.34	0.00	0.00	0.15	0.15	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	< 0.005	121
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	31.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (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	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.57	2.16	14.3	23.2	0.06	0.52	—	0.52	0.48	—	0.48	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.51	1.27	8.42	13.6	0.04	0.30	—	0.30	0.28	—	0.28	—	3,872	3,872	0.16	0.03	—	3,886
Dust From Material Movement	—	—	—	—	—	—	5.40	5.40	—	2.15	2.15	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.54	2.48	0.01	0.06	—	0.06	0.05	—	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dust From Material Movement	—	—	—	—	—	—	0.99	0.99	—	0.39	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.39	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.10	0.10	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.005	0.00

3.6. Grading (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	0.75	0.72	4.59	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.72	4.59	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.44	0.43	2.69	20.8	0.04	0.08	—	0.08	0.08	—	0.08	—	3,872	3,872	0.16	0.03	—	3,886
Dust From Material Movement	—	—	—	—	—	—	5.40	5.40	—	2.15	2.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.49	3.79	0.01	0.01	—	0.01	0.01	—	0.01	—	641	641	0.03	0.01	—	643
Dust From Material Movement	—	—	—	—	—	—	0.99	0.99	—	0.39	0.39	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.02	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	153	153	< 0.005	< 0.005	0.12	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.39	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	138	138	< 0.005	< 0.005	< 0.005	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	83.2	83.2	< 0.005	< 0.005	0.03	83.4

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	13.8	13.8	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.8	< 0.005	13.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.52	2.12	13.8	22.7	0.06	0.50	—	0.50	0.46	—	0.46	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.16	1.07	1.76	< 0.005	0.04	—	0.04	0.04	—	0.04	—	511	511	0.02	< 0.005	—	513

Dust From Material Movement	—	—	—	—	—	—	—	—	—	0.71	0.71	—	0.28	0.28	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.04	0.03	0.20	0.32	< 0.005	0.01	—	0.13	0.01	0.01	0.01	—	0.01	—	84.6	84.6	< 0.005	< 0.005	< 0.005	—	84.9	
Dust From Material Movement	—	—	—	—	—	—	—	0.13	0.13	—	0.05	0.05	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.04	0.03	0.02	0.38	0.00	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	—	137	137	< 0.005	< 0.005	< 0.005	< 0.005	138	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	< 0.005	< 0.005	10.9	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	—	1.80	1.80	< 0.005	< 0.005	< 0.005	< 0.005	1.81	

3.8. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.72	4.58	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.36	2.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	511	511	0.02	< 0.005	—	513
Dust From Material Movement	—	—	—	—	—	—	0.71	0.71	—	0.28	0.28	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

[illegible]

3.3.9. Building Construction (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	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.28	9.67	0.02	0.11	—	0.11	0.10	—	0.10	—	1,869	1,869	0.08	0.02	—	1,875
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	0.96	1.77	< 0.005	0.02	—	0.02	0.02	—	0.02	—	309	309	0.01	< 0.005	—	310
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.71	4.83	2.65	72.1	0.00	0.00	24.2	24.2	0.00	5.67	5.67	5.67	—	21,837	21,837	0.25	0.19	14.2	21,914						
Vendor	1.12	0.70	24.7	9.46	0.23	0.23	8.58	8.80	0.23	2.37	2.60	—	—	21,861	21,861	0.35	3.33	8.12	22,870						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00						
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	5.58	4.70	3.60	55.1	0.00	0.00	24.2	24.2	0.00	5.67	5.67	5.67	—	19,762	19,762	0.32	0.19	0.37	19,828						
Vendor	1.05	0.65	26.5	9.78	0.23	0.23	8.58	8.80	0.23	2.37	2.60	—	—	21,891	21,891	0.35	3.33	0.21	22,893						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00						
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	4.30	3.61	2.71	44.5	0.00	0.00	18.8	18.8	0.00	4.40	4.40	4.40	—	15,790	15,790	0.20	0.15	4.81	15,844						
Vendor	0.85	0.52	20.0	7.49	0.18	0.18	6.66	6.84	0.18	1.84	2.02	—	—	17,054	17,054	0.27	2.60	2.74	17,837						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00						
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	0.78	0.66	0.49	8.13	0.00	0.00	3.43	3.43	0.00	0.80	0.80	0.80	—	2,614	2,614	0.03	0.02	0.80	2,623						
Vendor	0.16	0.10	3.65	1.37	0.03	0.03	1.22	1.25	0.03	0.34	0.37	—	—	2,823	2,823	0.05	0.43	0.45	2,953						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00						

3.10. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.32	2.29	11.6	0.02	0.06	—	0.06	0.06	—	0.06	—	1,869	1,869	0.08	0.02	—	1,875
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.42	2.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	309	309	0.01	< 0.005	—	310
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.71	4.83	2.65	72.1	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	21,837	21,837	0.25	0.19	14.2	21,914
Vendor	1.12	0.70	24.7	9.46	0.23	0.23	8.58	8.80	0.23	2.37	2.60	—	21,861	21,861	0.35	3.33	8.12	22,870
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.58	4.70	3.60	55.1	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	—	—	19,762	19,762	0.32	0.19	0.37	19,828			
Vendor	1.05	0.65	26.5	9.78	0.23	0.23	8.80	8.58	0.23	2.37	2.60	—	—	—	21,891	21,891	0.35	3.33	0.21	22,893			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.30	3.61	2.71	44.5	0.00	0.00	18.8	18.8	0.00	4.40	4.40	—	—	—	15,790	15,790	0.20	0.15	4.81	15,844			
Vendor	0.85	0.52	20.0	7.49	0.18	0.18	6.84	6.66	0.18	1.84	2.02	—	—	—	17,054	17,054	0.27	2.60	2.74	17,837			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.66	0.49	8.13	0.00	0.00	3.43	3.43	0.00	0.80	0.80	—	—	—	2,614	2,614	0.03	0.02	0.80	2,623			
Vendor	0.16	0.10	3.65	1.37	0.03	0.03	1.25	1.22	0.03	0.34	0.37	—	—	—	2,823	2,823	0.05	0.43	0.45	2,953			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			

3.11. Building Construction (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	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.76	10.6	0.02	0.12	—	0.11	—	0.11	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.05	1.94	< 0.005	0.02	—	0.02	0.02	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.39	4.57	2.59	70.2	0.00	0.00	24.2	0.00	24.2	0.00	5.67	21,703	21,703	0.19	0.19	11.9	21,777
Vendor	1.12	0.72	24.4	9.46	0.23	0.23	8.58	0.23	8.80	0.23	2.37	21,438	21,438	0.35	3.33	6.35	22,445
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.26	4.38	3.60	53.9	0.00	0.00	24.2	0.00	24.2	0.00	5.67	19,642	19,642	0.32	0.19	0.31	19,707
Vendor	1.05	0.65	26.0	9.78	0.23	0.23	8.58	0.23	8.80	0.23	2.37	21,469	21,469	0.35	3.33	0.16	22,470
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	4.52	3.82	2.33	48.1	0.00	0.00	20.7	20.7	0.00	4.85	4.85	—	17,302	17,302	0.22	0.16	4.42	17,360
Vendor	0.94	0.60	21.8	8.26	0.19	0.19	7.35	7.54	0.19	2.03	2.22	—	18,437	18,437	0.30	2.86	2.35	19,300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.83	0.70	0.43	8.77	0.00	0.00	3.78	3.78	0.00	0.89	0.89	—	2,864	2,864	0.04	0.03	0.73	2,874
Vendor	0.17	0.11	3.98	1.51	0.04	0.04	1.34	1.38	0.04	0.37	0.41	—	3,052	3,052	0.05	0.47	0.39	3,195
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.52	12.8	0.02	0.06	—	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	—	0.01	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.39	4.57	2.59	70.2	0.00	0.00	24.2	24.2	0.00	5.67	21,703	21,703	0.19	0.19	11.9	21,777
Vendor	1.12	0.72	24.4	9.46	0.23	0.23	8.58	8.80	0.23	2.37	21,438	21,438	0.35	3.33	6.35	22,445
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.26	4.38	3.60	53.9	0.00	0.00	24.2	24.2	0.00	5.67	19,642	19,642	0.32	0.19	0.31	19,707
Vendor	1.05	0.65	26.0	9.78	0.23	0.23	8.58	8.80	0.23	2.37	21,469	21,469	0.35	3.33	0.16	22,470
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.52	3.82	2.33	48.1	0.00	0.00	20.7	20.7	0.00	4.85	17,302	17,302	0.22	0.16	4.42	17,360
Vendor	0.94	0.60	21.8	8.26	0.19	0.19	7.35	7.54	0.19	2.03	18,437	18,437	0.30	2.86	2.35	19,300
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.83	0.70	0.43	8.77	0.00	0.00	3.78	3.78	0.00	0.89	2,864	2,864	0.04	0.03	0.73	2,874
Vendor	0.17	0.11	3.98	1.51	0.04	0.04	1.34	1.38	0.04	0.37	3,052	3,052	0.05	0.47	0.39	3,195

3.13. Building Construction (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	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.70	10.6	0.02	0.12	—	0.12	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.15	0.12	1.04	1.93	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.26	4.44	2.59	69.2	0.00	0.00	24.2	0.00	5.67	5.67	5.67	—	21,589	21,589	0.19	0.19	9.89	21,660
Vendor	1.12	0.72	23.9	9.49	0.23	0.23	8.80	0.23	2.37	2.60	2.60	—	21,060	21,060	0.35	3.33	4.90	22,066
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.07	4.19	3.53	52.7	0.00	0.00	24.2	0.00	5.67	5.67	5.67	—	19,538	19,538	0.25	0.19	0.26	19,602
Vendor	1.05	0.65	25.7	9.81	0.23	0.23	8.80	0.23	2.37	2.60	2.60	—	21,091	21,091	0.35	3.33	0.13	22,092
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.29	3.59	2.33	46.9	0.00	0.00	20.6	0.00	4.84	4.84	4.84	—	17,163	17,163	0.22	0.16	3.66	17,221
Vendor	0.94	0.60	21.3	8.26	0.19	0.19	7.52	0.19	2.02	2.22	2.22	—	18,062	18,062	0.30	2.85	1.82	18,922
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.66	0.42	8.57	0.00	0.00	3.77	0.00	0.88	0.88	0.88	—	2,842	2,842	0.04	0.03	0.61	2,851
Vendor	0.17	0.11	3.89	1.51	0.04	0.04	1.34	0.04	0.37	0.40	0.40	—	2,990	2,990	0.05	0.47	0.30	3,133
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,061
Onsite truck	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.26	4.44	2.59	69.2	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	21,589	21,589	0.19	0.19	9.89	21,660	—	—
Vendor	1.12	0.72	23.9	9.49	0.23	0.23	8.80	8.58	0.23	2.60	2.37	—	21,060	21,060	0.35	3.33	4.90	22,066	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.07	4.19	3.53	52.7	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	19,538	19,538	0.25	0.19	0.26	19,602	—	—
Vendor	1.05	0.65	25.7	9.81	0.23	0.23	8.80	8.58	0.23	2.60	2.37	—	21,091	21,091	0.35	3.33	0.13	22,092	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.29	3.59	2.33	46.9	0.00	0.00	20.6	20.6	0.00	4.84	4.84	—	17,163	17,163	0.22	0.16	3.66	17,221	—	—
Vendor	0.94	0.60	21.3	8.26	0.19	0.19	7.52	7.33	0.19	2.22	2.02	—	18,062	18,062	0.30	2.85	1.82	18,922	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.66	0.42	8.57	0.00	0.00	3.77	3.77	0.00	0.88	0.88	—	2,842	2,842	0.04	0.03	0.61	2,851	—	—
Vendor	0.17	0.11	3.89	1.51	0.04	0.04	1.37	1.34	0.04	0.40	0.37	—	2,990	2,990	0.05	0.47	0.30	3,133	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—

3.15. Building Construction (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 Equipm	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.66	10.6	0.02	0.12	—	0.12	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.03	1.93	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.07	4.19	2.59	68.2	0.00	0.00	24.2	24.2	5.67	5.67	—	21,488	21,488	0.19	0.19	8.18	21,558
Vendor	1.12	0.72	23.6	9.26	0.23	0.23	8.58	8.80	2.37	2.60	—	20,723	20,723	0.35	3.10	3.77	21,661
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.01	4.13	2.78	51.5	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	—	—	19,448	19,448	0.25	0.19	0.21	19,511			
Vendor	1.05	0.65	25.2	9.58	0.23	0.23	8.80	8.58	0.23	2.37	2.60	—	—	—	20,754	20,754	0.35	3.10	0.10	21,688			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	4.18	3.48	2.27	46.0	0.00	0.00	20.6	20.6	0.00	4.84	4.84	—	—	—	17,083	17,083	0.22	0.16	3.03	17,140			
Vendor	0.94	0.60	21.0	8.07	0.19	0.19	7.52	7.33	0.19	2.02	2.22	—	—	—	17,774	17,774	0.30	2.66	1.40	18,576			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	0.76	0.64	0.41	8.40	0.00	0.00	3.77	3.77	0.00	0.88	0.88	—	—	—	2,828	2,828	0.04	0.03	0.50	2,838			
Vendor	0.17	0.11	3.84	1.47	0.04	0.04	1.37	1.34	0.04	0.37	0.40	—	—	—	2,943	2,943	0.05	0.44	0.23	3,075			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			

3.16. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	—	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.07	4.19	2.59	68.2	0.00	0.00	24.2	24.2	5.67	0.00	—	21,488	21,488	0.19	0.19	8.18	21,558
Vendor	1.12	0.72	23.6	9.26	0.23	0.23	8.58	8.80	2.37	2.60	—	20,723	20,723	0.35	3.10	3.77	21,661
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.01	4.13	2.78	51.5	0.00	0.00	24.2	24.2	5.67	0.00	—	19,448	19,448	0.25	0.19	0.21	19,511
Vendor	1.05	0.65	25.2	9.58	0.23	0.23	8.58	8.80	2.37	2.60	—	20,754	20,754	0.35	3.10	0.10	21,688
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	4.18	3.48	2.27	46.0	0.00	0.00	20.6	20.6	0.00	4.84	4.84	—	17,083	17,083	0.22	0.16	3.03	17,140
Vendor	0.94	0.60	21.0	8.07	0.19	0.19	7.33	7.52	0.19	2.22	2.02	—	17,774	17,774	0.30	2.66	1.40	18,576
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.64	0.41	8.40	0.00	0.00	3.77	3.77	0.00	0.88	0.88	—	2,828	2,828	0.04	0.03	0.50	2,838
Vendor	0.17	0.11	3.84	1.47	0.04	0.04	1.34	1.37	0.04	0.37	0.40	—	2,943	2,943	0.05	0.44	0.23	3,075
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Building Construction (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	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.81	0.67	5.61	10.5	0.02	0.11	—	0.11	—	0.10	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.88	4.06	2.53	67.2	0.00	0.00	24.2	24.2	5.67	5.67	—	21,401	21,401	0.19	0.19	6.72	21,470
Vendor	1.12	0.70	23.3	9.29	0.23	0.23	8.58	8.80	2.37	2.60	—	20,429	20,429	0.35	3.10	2.88	21,366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.88	4.06	2.78	51.2	0.00	0.00	24.2	24.2	5.67	5.67	—	19,370	19,370	0.25	0.19	0.17	19,433
Vendor	1.05	0.65	24.9	9.58	0.23	0.23	8.58	8.80	2.37	2.60	—	20,460	20,460	0.35	3.10	0.07	21,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.13	3.37	2.27	45.8	0.00	0.00	20.6	20.6	4.84	4.84	—	17,014	17,014	0.22	0.16	2.49	17,071
Vendor	0.94	0.60	20.8	8.09	0.19	0.19	7.33	7.52	2.02	2.22	—	17,522	17,522	0.30	2.66	1.07	18,323
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.62	0.41	8.36	0.00	0.00	3.77	3.77	0.88	0.88	—	2,817	2,817	0.04	0.03	0.41	2,826
Vendor	0.17	0.11	3.80	1.48	0.04	0.04	1.34	1.37	0.37	0.40	—	2,901	2,901	0.05	0.44	0.18	3,034

3.18. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	—	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.88	4.06	2.53	67.2	0.00	0.00	24.2	24.2	0.00	5.67	5.67	21,401	21,401	0.19	0.19	6.72	21,470
Vendor	1.12	0.70	23.3	9.29	0.23	0.23	8.80	8.58	0.23	2.37	2.60	20,429	20,429	0.35	3.10	2.88	21,366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.88	4.06	2.78	51.2	0.00	0.00	24.2	24.2	0.00	5.67	5.67	19,370	19,370	0.25	0.19	0.17	19,433
Vendor	1.05	0.65	24.9	9.58	0.23	0.23	8.80	8.58	0.23	2.37	2.60	20,460	20,460	0.35	3.10	0.07	21,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.13	3.37	2.27	45.8	0.00	0.00	20.6	20.6	0.00	4.84	4.84	17,014	17,014	0.22	0.16	2.49	17,071
Vendor	0.94	0.60	20.8	8.09	0.19	0.19	7.52	7.33	0.19	2.02	2.22	17,522	17,522	0.30	2.66	1.07	18,323
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.62	0.41	8.36	0.00	0.00	3.77	3.77	0.00	0.88	0.88	2,817	2,817	0.04	0.03	0.41	2,826
Vendor	0.17	0.11	3.80	1.48	0.04	0.04	1.37	1.34	0.04	0.37	0.40	2,901	2,901	0.05	0.44	0.18	3,034
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Construction (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	0.11	—	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	0.11	—	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	5.57	10.5	0.02	0.11	—	0.11	0.10	0.10	—	0.10	—	0.10	—	2,060	2,060	0.08	0.02	—	—	—	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	0.02	0.02	—	0.02	—	0.02	—	341	341	0.01	< 0.005	—	—	—	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.82	3.94	2.53	66.3	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	21,330	21,330	0.19	0.13	5.53	21,378					
Vendor	0.87	0.70	23.0	9.29	0.23	0.23	8.80	8.58	0.23	2.60	2.37	—	20,173	20,173	0.35	3.10	2.18	21,109					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.69	3.87	2.72	50.2	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	19,305	19,305	0.25	0.19	0.14	19,368					
Vendor	0.82	0.65	24.6	9.58	0.23	0.23	8.80	8.58	0.23	2.60	2.37	—	20,204	20,204	0.35	3.10	0.06	21,138					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.03	3.33	2.28	45.1	0.00	0.00	20.7	20.7	0.00	4.85	4.85	—	17,004	17,004	0.22	0.16	2.05	17,060					
Vendor	0.75	0.58	20.6	8.11	0.19	0.19	7.54	7.35	0.19	2.22	2.03	—	17,350	17,350	0.30	2.67	0.81	18,153					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.61	0.42	8.24	0.00	0.00	3.78	3.78	0.00	0.89	0.89	—	2,815	2,815	0.04	0.03	0.34	2,825					
Vendor	0.14	0.11	3.76	1.48	0.04	0.04	1.38	1.34	0.04	0.41	0.37	—	2,872	2,872	0.05	0.44	0.13	3,005					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					

3.20. Building Construction (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 Equipm	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.82	3.94	2.53	66.3	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	21,330	21,330	0.19	0.13	5.53	21,378
Vendor	0.87	0.70	23.0	9.29	0.23	0.23	8.58	8.80	0.23	2.37	2.60	—	20,173	20,173	0.35	3.10	2.18	21,109
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.69	3.87	2.72	50.2	0.00	0.00	24.2	24.2	0.00	5.67	5.67	—	—	—	19,305	19,305	0.25	0.19	0.14	19,368			
Vendor	0.82	0.65	24.6	9.58	0.23	0.23	8.80	8.58	0.23	2.37	2.60	—	—	—	20,204	20,204	0.35	3.10	0.06	21,138			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	4.03	3.33	2.28	45.1	0.00	0.00	20.7	20.7	0.00	4.85	4.85	—	—	—	17,004	17,004	0.22	0.16	2.05	17,060			
Vendor	0.75	0.58	20.6	8.11	0.19	0.19	7.54	7.35	0.19	2.03	2.22	—	—	—	17,350	17,350	0.30	2.67	0.81	18,153			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	0.74	0.61	0.42	8.24	0.00	0.00	3.78	3.78	0.00	0.89	0.89	—	—	—	2,815	2,815	0.04	0.03	0.34	2,825			
Vendor	0.14	0.11	3.76	1.48	0.04	0.04	1.38	1.34	0.04	0.37	0.41	—	—	—	2,872	2,872	0.05	0.44	0.13	3,005			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00			

3.21. Building Construction (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	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	5.50	10.4	0.02	0.10	—	0.10	0.09	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.00	1.90	< 0.005	0.02	—	0.02	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.69	3.87	2.53	66.2	0.00	0.00	24.2	24.2	0.00	5.67	21,268	21,268	0.19	0.13	4.53	21,315
Vendor	0.87	0.70	22.7	9.31	0.23	0.23	8.58	8.80	0.23	2.37	19,951	19,951	0.35	3.10	1.62	20,886
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.87	3.81	2.72	50.0	0.00	0.00	24.2	24.2	0.00	5.67	19,248	19,248	0.25	0.19	0.12	19,312
Vendor	0.82	0.62	24.6	9.58	0.23	0.23	8.58	8.80	0.23	2.37	19,982	19,982	0.35	3.10	0.04	20,916
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.97	3.21	2.22	44.9	0.00	0.00	20.6	20.6	4.84	4.84	—	16,908	16,908	0.16	1.67	16,963
Vendor	0.75	0.58	20.3	8.11	0.19	0.19	7.33	7.52	2.22	2.02	—	17,112	17,112	0.30	2.66	17,913
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.59	0.40	8.19	0.00	0.00	3.77	3.77	0.88	0.88	—	2,799	2,799	0.03	0.28	2,808
Vendor	0.14	0.11	3.71	1.48	0.04	0.04	1.34	1.37	0.40	0.37	—	2,833	2,833	0.05	0.10	2,966
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.22. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.51	12.8	0.02	0.06	—	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.69	3.87	2.53	66.2	0.00	0.00	24.2	24.2	0.00	5.67	21,268	21,268	0.19	0.13	4.53	21,315
Vendor	0.87	0.70	22.7	9.31	0.23	0.23	8.58	8.80	0.23	2.37	19,951	19,951	0.35	3.10	1.62	20,886
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.87	3.81	2.72	50.0	0.00	0.00	24.2	24.2	0.00	5.67	19,248	19,248	0.25	0.19	0.12	19,312
Vendor	0.82	0.62	24.6	9.58	0.23	0.23	8.58	8.80	0.23	2.37	19,982	19,982	0.35	3.10	0.04	20,916
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.97	3.21	2.22	44.9	0.00	0.00	20.6	20.6	0.00	4.84	16,908	16,908	0.16	0.16	1.67	16,963
Vendor	0.75	0.58	20.3	8.11	0.19	0.19	7.33	7.52	0.19	2.02	17,112	17,112	0.30	2.66	0.60	17,913
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.59	0.40	8.19	0.00	0.00	3.77	3.77	0.00	0.88	2,799	2,799	0.03	0.03	0.28	2,808
Vendor	0.14	0.11	3.71	1.48	0.04	0.04	1.34	1.37	0.04	0.37	2,833	2,833	0.05	0.44	0.10	2,966

3.23. Building Construction (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	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.72	8.96	0.02	0.09	—	0.09	0.08	—	0.08	—	1,773	1,773	0.07	0.01	—	1,779
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.12	0.10	0.86	1.64	< 0.005	0.02	—	0.02	—	0.01	—	294	294	0.01	< 0.005	—	295
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.63	3.81	2.53	65.4	0.00	0.00	24.2	24.2	—	5.67	—	21,215	21,215	0.19	0.13	3.71	21,261
Vendor	0.87	0.70	22.7	9.34	0.23	0.23	8.80	8.58	—	2.60	—	19,759	19,759	0.35	3.10	1.18	20,694
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.81	3.68	2.72	49.9	0.00	0.00	24.2	24.2	—	5.67	—	19,201	19,201	0.25	0.19	0.10	19,264
Vendor	0.82	0.65	24.3	9.61	0.23	0.23	8.80	8.58	—	2.60	—	19,790	19,790	0.35	3.10	0.03	20,724
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.28	2.68	1.92	38.6	0.00	0.00	17.8	17.8	—	4.18	—	14,556	14,556	0.14	0.14	1.19	14,603
Vendor	0.62	0.50	17.5	6.98	0.17	0.17	6.49	6.32	—	1.91	—	14,626	14,626	0.26	2.30	0.38	15,317
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.49	0.35	7.05	0.00	0.00	3.25	3.25	—	0.76	—	2,410	2,410	0.02	0.02	0.20	2,418
Vendor	0.11	0.09	3.20	1.27	0.03	0.03	1.18	1.15	—	0.35	—	2,421	2,421	0.04	0.38	0.06	2,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.31	2.17	11.0	0.02	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,779
Onsite truck	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.40	2.01	< 0.005	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	295
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.63	3.81	2.53	65.4	0.00	0.00	24.2	24.2	0.00	5.67	5.67	5.67	—	21,215	21,215	0.19	0.13	3.71	21,261	
Vendor	0.87	0.70	22.7	9.34	0.23	0.23	8.80	8.58	0.23	2.37	2.60	2.60	—	19,759	19,759	0.35	3.10	1.18	20,694	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.81	3.68	2.72	49.9	0.00	0.00	24.2	24.2	0.00	5.67	5.67	5.67	—	19,201	19,201	0.25	0.19	0.10	19,264	
Vendor	0.82	0.65	24.3	9.61	0.23	0.23	8.80	8.58	0.23	2.37	2.60	2.60	—	19,790	19,790	0.35	3.10	0.03	20,724	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.28	2.68	1.92	38.6	0.00	0.00	17.8	17.8	0.00	4.18	4.18	4.18	—	14,556	14,556	0.14	0.14	1.19	14,603	
Vendor	0.62	0.50	17.5	6.98	0.17	0.17	6.49	6.32	0.17	1.75	1.91	1.91	—	14,626	14,626	0.26	2.30	0.38	15,317	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.60	0.49	0.35	7.05	0.00	0.00	3.25	3.25	0.00	0.76	0.76	0.76	—	2,410	2,410	0.02	0.02	0.20	2,418	
Vendor	0.11	0.09	3.20	1.27	0.03	0.03	1.18	1.15	0.03	0.32	0.35	0.35	—	2,421	2,421	0.04	0.38	0.06	2,536	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.25. Paving (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	5.02	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	—	1,516
Paving	2.03	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.59	1.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	177	177	0.01	< 0.005	—	—	178
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.4	29.4	< 0.005	< 0.005	—	—	29.5
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.00	0.00	0.03	—	0.03	0.03	100	100	< 0.005	< 0.005	< 0.005	100	100

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	12.0	12.0	< 0.005	< 0.005	< 0.005	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.99	1.99	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Paving (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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.25	2.08	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.03	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.03	0.03	0.24	1.23	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	177	177	0.01	< 0.005	—	178
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	29.4	29.4	< 0.005	< 0.005	—	29.5
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.00	0.03	0.03	100	< 0.005	< 0.005	< 0.005	100
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.13	0.01	0.00	< 0.005	< 0.005	12.0	< 0.005	< 0.005	< 0.005	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	1.99	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.27. Paving (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 Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.03	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	2.03	2.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.77	3.44	< 0.005	0.03	—	0.03	0.02	—	0.02	—	536	536	0.02	< 0.005	—	538
Paving	0.72	0.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.32	0.63	< 0.005	< 0.005	—	< 0.005	—	88.7	88.7	< 0.005	< 0.005	< 0.005	—	89.0
Paving	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.00	0.13	0.03	0.03	110	110	< 0.005	< 0.005	< 0.005	0.02	111
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.03	0.03	99.8	99.8	< 0.005	< 0.005	< 0.005	< 0.005	100
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.01	0.01	36.3	36.3	< 0.005	< 0.005	< 0.005	< 0.005	36.4
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	< 0.005	< 0.005	6.01	6.01	< 0.005	< 0.005	< 0.005	< 0.005	6.02
Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Paving (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
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Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	0.00	—	110	110	< 0.005	< 0.005	0.02	111			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	0.00	—	99.8	99.8	< 0.005	< 0.005	< 0.005	100			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	0.00	—	36.3	36.3	< 0.005	< 0.005	< 0.005	36.4			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	0.00	—	6.01	6.01	< 0.005	< 0.005	< 0.005	6.02			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.29. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

3.30. 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	66.6	66.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	66.6	66.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	63.3	63.3	< 0.005	< 0.005	—	63.5

Worker	0.06	0.06	0.04	0.89	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	308	308	< 0.005	< 0.005	0.02	309
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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)

[illegible]

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2038	1/5/2038	6.00	4.00	—
Site Preparation	Site Preparation	1/6/2038	4/25/2038	6.00	94.0	—
Grading	Grading	4/26/2038	2/2/2039	6.00	243	—
Building Construction	Building Construction	2/3/2039	11/11/2046	6.00	2,433	—
Paving	Paving	11/12/2046	5/31/2047	6.00	173	—
Architectural Coating	Architectural Coating	6/1/2047	12/19/2047	6.00	173	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
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
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	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	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	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
Demolition	—	—	—	—
74 / 85				

Demolition	Worker	15.0	11.9	LDA,LDT1,LDT2
Demolition	Vendor	—	9.10	HHDT,MHDT
Demolition	Hauling	82.8	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	2,880	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,124	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	576	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT

Architectural Coating	Onsite truck	—	—	HHDT
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5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.9	LDA,LDT1,LDT2
Demolition	Vendor	—	9.10	HHDT,MHDT
Demolition	Hauling	82.8	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	2,880	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,124	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	576	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	10,284,750	3,428,250	428,369

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	28,754	—
Site Preparation	—	—	141	0.00	—
Grading	—	—	729	0.00	—
Paving	0.00	0.00	0.00	0.00	164

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
Industrial Park	0.00	0%
Parking Lot	41.9	100%
Other Asphalt Surfaces	92.2	100%
Other Non-Asphalt Surfaces	29.8	0%
City Park	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
2038	0.00	204	0.03	< 0.005
2039	0.00	204	0.03	< 0.005
2040	0.00	204	0.03	< 0.005
2041	0.00	204	0.03	< 0.005
2042	0.00	204	0.03	< 0.005
2043	0.00	204	0.03	< 0.005
2044	0.00	204	0.03	< 0.005
2045	0.00	204	0.03	< 0.005
2046	0.00	204	0.03	< 0.005
2047	0.00	204	0.03	< 0.005

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
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Temperature and Extreme Heat	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1

Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100

Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—

Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

- a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
- b: The maximum Healthy 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
Land Use	Land uses are based on Project-specific information.
Construction: Construction Phases	Project-specific construction schedule.
Construction: Architectural Coatings	—

Pacific Gateway (West Development Area Construction) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (West Development Area Construction)
Construction Start Date	1/1/2047
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	6,169	1000sqft	174	6,168,900	1,386,500	—	—	—
Parking Lot	1,331	1000sqft	30.5	0.00	0.00	—	—	—

Other Non-Asphalt Surfaces	899	1000sqft	20.6	0.00	0.00	—	—	—
City Park	58.5	Acre	58.5	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	3,750	1000sqft	86.1	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	188	185	61.6	182	0.47	0.68	67.7	68.3	0.66	16.5	17.1	—	85,051	85,051	1.24	5.49	4.33	86,724
Mit.	71.2	69.1	52.2	188	0.47	0.59	67.7	68.2	0.58	16.5	17.1	—	85,051	85,051	1.24	5.49	4.33	86,724
% Reduced	62%	63%	15%	-3%	—	13%	—	< 0.5%	11%	—	< 0.5%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	186	185	64.9	149	0.47	0.68	67.7	68.3	0.66	16.5	17.1	—	80,785	80,785	1.38	5.63	0.11	82,498
Mit.	69.6	69.0	55.6	155	0.47	0.59	67.7	68.2	0.58	16.5	17.1	—	80,785	80,785	1.38	5.63	0.11	82,498
% Reduced	63%	63%	14%	-4%	—	13%	—	< 0.5%	11%	—	< 0.5%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	91.7	90.9	49.8	120	0.37	0.53	51.0	51.5	0.51	12.5	13.0	—	63,623	63,623	0.99	4.47	1.41	64,982					
Mit.	36.0	35.5	43.3	125	0.37	0.46	51.0	51.4	0.46	12.5	12.9	—	63,623	63,623	0.99	4.47	1.41	64,982					
% Reduced	61%	61%	13%	-4%	—	12%	—	< 0.5%	10%	—	< 0.5%	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.7	16.6	9.10	21.8	0.07	0.10	9.30	9.40	0.09	2.27	2.37	—	10,533	10,533	0.16	0.74	0.23	10,758					
Mit.	6.57	6.47	7.91	22.8	0.07	0.08	9.30	9.39	0.08	2.27	2.36	—	10,533	10,533	0.16	0.74	0.23	10,758					
% Reduced	61%	61%	13%	-4%	—	12%	—	< 0.5%	10%	—	< 0.5%	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	2.26	1.90	11.8	21.0	0.06	0.35	19.8	20.2	0.33	10.1	10.5	—	6,743	6,743	0.27	0.05	0.02	6,766
2048	5.80	4.75	28.6	78.8	0.23	0.31	29.5	29.8	0.30	7.23	7.54	—	38,913	38,913	0.58	2.93	2.82	39,803
2049	5.74	4.70	28.6	78.8	0.23	0.31	29.5	29.8	0.30	7.23	7.54	—	38,778	38,778	0.58	2.72	2.28	39,607
2050	188	185	61.6	182	0.47	0.68	67.7	68.3	0.66	16.5	17.1	—	85,051	85,051	1.24	5.49	4.33	86,724
2051	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2055	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2056	175	175	—	—	—	—	8.16	8.16	—	2.04	2.04	—	0.00	0.00	0.00	0.00	—	0.00

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	2.25	1.90	11.8	20.9	0.06	0.35	19.8	20.2	0.33	10.1	10.5	—	—	6,729	6,729	0.27	0.05	< 0.005	6,752	—
2048	4.99	4.65	30.3	65.0	0.23	0.32	29.5	29.8	0.30	7.23	7.54	—	—	37,136	37,136	0.64	2.98	0.07	38,041	—
2049	4.93	4.59	30.3	65.0	0.23	0.31	29.5	29.8	0.30	7.23	7.54	—	—	37,004	37,004	0.64	2.78	0.06	37,849	—
2050	186	185	64.9	149	0.47	0.68	67.7	68.3	0.66	16.5	17.1	—	—	80,785	80,785	1.38	5.63	0.11	82,498	—
2051	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2052	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2053	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2054	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2055	1.77	1.77	—	—	—	—	26.5	26.5	—	6.63	6.63	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2056	175	175	—	—	—	—	8.16	8.16	—	2.04	2.04	—	—	0.00	0.00	0.00	0.00	—	0.00	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	1.92	1.61	9.50	17.1	0.05	0.29	10.7	11.0	0.27	4.83	5.10	—	—	5,442	5,442	0.22	0.04	0.01	5,461	—
2048	4.09	3.78	24.2	54.0	0.18	0.27	23.9	24.1	0.26	5.95	6.21	—	—	30,173	30,173	0.48	2.37	0.97	30,890	—
2049	4.22	3.91	25.2	56.9	0.19	0.27	25.2	25.4	0.26	6.18	6.43	—	—	32,069	32,069	0.50	2.38	0.84	32,793	—
2050	91.7	90.9	49.8	120	0.37	0.53	51.0	51.5	0.51	12.5	13.0	—	—	63,623	63,623	0.99	4.47	1.41	64,982	—
2051	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2052	—	—	—	—	—	—	22.7	22.7	—	5.67	5.67	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2053	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2054	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2055	0.21	0.21	—	—	—	—	19.5	19.5	—	4.87	4.87	—	—	0.00	0.00	0.00	0.00	—	0.00	—
2056	83.5	83.5	—	—	—	—	3.89	3.89	—	0.97	0.97	—	—	0.00	0.00	0.00	0.00	—	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	0.35	0.29	1.73	3.13	0.01	0.05	1.96	2.01	0.05	0.88	0.93	—	—	901	901	0.04	0.01	< 0.005	904	—
2048	0.75	0.69	4.41	9.85	0.03	0.05	4.36	4.41	0.05	1.09	1.13	—	—	4,995	4,995	0.08	0.39	0.16	5,114	—
2049	0.77	0.71	4.60	10.4	0.04	0.05	4.59	4.64	0.05	1.13	1.17	—	—	5,309	5,309	0.08	0.39	0.14	5,429	—

2050	16.7	16.6	9.10	21.8	0.07	0.10	9.30	9.40	0.09	2.27	2.37	—	10,533	10,533	0.16	0.74	0.23	10,758
2051	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	4.14	4.14	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2055	0.04	0.04	—	—	—	—	3.55	3.55	—	0.89	0.89	—	0.00	0.00	0.00	0.00	—	0.00
2056	15.2	15.2	—	—	—	—	0.71	0.71	—	0.18	0.18	—	0.00	0.00	0.00	0.00	—	0.00

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
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	0.78	0.75	4.58	35.8	0.06	0.13	19.8	19.9	0.13	10.1	10.2	—	6,743	6,743	0.27	0.05	0.02	6,766
2048	5.35	4.41	25.3	81.8	0.23	0.28	29.5	29.8	0.27	7.23	7.51	—	38,913	38,913	0.58	2.93	2.82	39,803
2049	5.29	4.36	25.3	81.8	0.23	0.28	29.5	29.8	0.27	7.23	7.51	—	38,778	38,778	0.58	2.72	2.28	39,607
2050	71.2	69.1	52.2	188	0.47	0.59	67.7	68.2	0.58	16.5	17.1	—	85,051	85,051	1.24	5.49	4.33	86,724
2051	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2055	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2056	59.2	59.2	—	—	—	—	8.16	8.16	—	2.04	2.04	—	0.00	0.00	0.00	0.00	—	0.00
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	0.77	0.75	4.59	35.7	0.06	0.13	19.8	19.9	0.13	10.1	10.2	—	6,729	6,729	0.27	0.05	< 0.005	6,752
2048	4.55	4.31	27.0	68.0	0.23	0.28	29.5	29.8	0.27	7.23	7.51	—	37,136	37,136	0.64	2.98	0.07	38,041

2049	4.49	4.25	27.0	68.0	0.23	0.28	29.5	29.8	0.27	7.23	7.51	—	37,004	37,004	0.64	2.78	0.06	37,849
2050	69.6	69.0	55.6	155	0.47	0.59	67.7	68.2	0.58	16.5	17.1	—	80,785	80,785	1.38	5.63	0.11	82,498
2051	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2055	1.77	1.77	—	—	—	—	26.5	26.5	—	6.63	6.63	—	0.00	0.00	0.00	0.00	—	0.00
2056	59.2	59.2	—	—	—	—	8.16	8.16	—	2.04	2.04	—	0.00	0.00	0.00	0.00	—	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	0.60	0.58	3.43	28.8	0.05	0.10	10.7	10.8	0.10	4.83	4.93	—	5,442	5,442	0.22	0.04	0.01	5,461
2048	3.64	3.43	21.1	57.3	0.18	0.23	23.9	24.1	0.23	5.95	6.18	—	30,173	30,173	0.48	2.37	0.97	30,890
2049	3.84	3.62	22.4	59.4	0.19	0.24	25.2	25.4	0.24	6.18	6.41	—	32,069	32,069	0.50	2.38	0.84	32,793
2050	36.0	35.5	43.3	125	0.37	0.46	51.0	51.4	0.46	12.5	12.9	—	63,623	63,623	0.99	4.47	1.41	64,982
2051	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	22.7	22.7	—	5.67	5.67	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	22.6	22.6	—	5.65	5.65	—	0.00	0.00	0.00	0.00	—	0.00
2055	0.21	0.21	—	—	—	—	19.5	19.5	—	4.87	4.87	—	0.00	0.00	0.00	0.00	—	0.00
2056	28.7	28.7	—	—	—	—	3.89	3.89	—	0.97	0.97	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2047	0.11	0.11	0.63	5.26	0.01	0.02	1.96	1.98	0.02	0.88	0.90	—	901	901	0.04	0.01	< 0.005	904
2048	0.66	0.63	3.85	10.5	0.03	0.04	4.36	4.40	0.04	1.09	1.13	—	4,995	4,995	0.08	0.39	0.16	5,114
2049	0.70	0.66	4.08	10.8	0.04	0.04	4.59	4.64	0.04	1.13	1.17	—	5,309	5,309	0.08	0.39	0.14	5,429
2050	6.57	6.47	7.91	22.8	0.07	0.08	9.30	9.39	0.08	2.27	2.36	—	10,533	10,533	0.16	0.74	0.23	10,758
2051	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2052	—	—	—	—	—	—	4.14	4.14	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2053	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00
2054	—	—	—	—	—	—	4.13	4.13	—	1.03	1.03	—	0.00	0.00	0.00	0.00	—	0.00

2055	0.04	0.04	—	—	—	3.55	3.55	—	0.89	0.89	—	0.00	0.00	0.00	0.00	—	0.00
2056	5.24	5.24	—	—	—	0.71	0.71	—	0.18	0.18	—	0.00	0.00	0.00	0.00	—	0.00

3. Construction Emissions Details

3.1. Site Preparation (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 Equipment	2.16	1.82	11.8	17.4	0.05	0.35	—	0.35	0.33	—	0.33	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.82	11.8	17.4	0.05	0.35	—	0.35	0.33	—	0.33	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	0.01	30.7	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	< 0.005	5.09	< 0.005	< 0.005	< 0.005	< 0.005	5.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (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	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	19.7	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.67	7.29	0.01	0.03	—	0.03	0.03	—	0.03	—	1,364	1,364	0.06	0.01	—	1,369
Dust From Material Movement	—	—	—	—	—	5.06	5.06	5.06	—	2.60	2.60	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	1.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	226	226	0.01	< 0.005	—	227
Dust From Material Movement	—	—	—	—	—	0.92	0.92	0.92	—	0.47	0.47	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.40	0.00	0.15	0.15	0.15	0.00	0.03	0.03	—	129	129	< 0.005	< 0.005	0.02	129

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.30	0.00	0.00	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	116	116	< 0.005	< 0.005	117
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	—	30.7	30.7	< 0.005	< 0.005	30.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	5.09	5.09	< 0.005	< 0.005	5.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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 Equipment	2.23	1.87	10.7	20.6	0.06	0.34	—	0.34	0.31	—	0.31	—	6,596	6,596	0.27	0.05	—	6,619	

Dust From Material Movement	—	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.23	1.87	10.7	20.6	0.06	0.34	—	9.20	0.34	0.31	—	0.31	—	6,596	6,596	0.27	0.05	—	6,619	
Dust From Material Movement	—	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.34	1.12	6.46	12.4	0.04	0.20	—	—	0.20	0.19	—	0.19	—	3,965	3,965	0.16	0.03	—	3,979	
Dust From Material Movement	—	—	—	—	—	—	—	5.53	5.53	—	2.20	2.20	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.21	1.18	2.26	0.01	0.04	—	—	0.04	0.03	—	0.03	—	657	657	0.03	0.01	—	659	

[illegible]

3.4. Grading (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	0.75	0.72	4.57	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.72	4.57	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.43	2.75	21.3	0.04	0.08	—	0.08	0.08	—	0.08	—	3,965	3,965	0.16	0.03	—	3,979
Dust From Material Movement	—	—	—	—	—	—	5.53	5.53	—	2.20	2.20	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.50	3.88	0.01	0.01	—	0.01	0.01	0.01	0.01	0.01	0.01	—	657	657	0.03	0.01	—	659
Dust From Material Movement	—	—	—	—	—	1.01	1.01	1.01	—	0.40	0.40	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.17	0.17	0.17	0.00	0.04	0.04	0.04	0.04	—	147	147	< 0.005	< 0.005	0.02	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.35	0.00	0.17	0.17	0.17	0.00	0.04	0.04	0.04	0.04	—	133	133	< 0.005	< 0.005	< 0.005	134
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.10	0.10	0.10	0.00	0.02	0.02	0.02	0.02	—	82.0	82.0	< 0.005	< 0.005	0.01	82.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.02	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	13.6	13.6	< 0.005	< 0.005	< 0.005	13.6

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.20	1.84	10.5	20.1	0.06	0.32	—	0.32	0.30	—	0.30	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.71	1.37	< 0.005	0.02	—	0.02	0.02	—	0.02	—	449	449	0.02	< 0.005	—	451
Dust From Material Movement	—	—	—	—	—	—	0.63	0.63	—	0.25	0.25	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.13	0.25	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.4	74.4	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	74.6
Dust From Material Movement	—	—	—	—	—	0.11	0.11	0.05	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.03	0.03	0.02	0.34	0.00	0.17	0.17	0.04	0.04	0.04	0.04	0.04	—	133	133	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	133	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.27	9.27	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.30	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.54	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3.6. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.72	4.57	35.4	0.06	0.13	—	0.13	0.13	—	0.13	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.31	2.41	< 0.005	0.01	—	0.01	0.01	—	0.01	—	449	449	0.02	< 0.005	—	451
Dust From Material Movement	—	—	—	—	—	—	0.63	0.63	—	0.25	0.25	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.4	74.4	< 0.005	< 0.005	—	74.6

Dust From Material Movement	—	—	—	—	—	0.11	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.34	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	133	133	< 0.005	< 0.005	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.27	9.27	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (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 Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	—	0.11	0.10	—	—	0.10	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.26	12.0	0.02	0.11	—	—	0.11	0.10	—	—	0.10	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.60	4.96	9.46	0.02	0.09	—	—	0.09	0.08	—	—	0.08	—	1,897	1,897	0.08	0.02	—	—	—	—	1,903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.90	1.73	< 0.005	0.02	—	—	0.02	0.01	—	—	0.01	—	314	314	0.01	< 0.005	—	—	—	—	315
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	4.11	3.37	2.22	58.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	19,017	19,017	0.17	0.11	2.27	19,058
Vendor	0.78	0.63	20.1	8.20	0.20	0.20	7.92	7.72	0.20	2.13	2.34	—	17,499	17,499	0.31	2.79	0.55	18,340
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.37	3.31	2.44	44.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	17,212	17,212	0.23	0.17	0.06	17,269
Vendor	0.72	0.58	21.6	8.44	0.20	0.20	7.92	7.72	0.20	2.13	2.34	—	17,527	17,527	0.31	2.79	0.01	18,368
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.62	2.58	1.84	36.5	0.00	0.00	17.2	17.2	0.00	4.02	4.02	—	13,959	13,959	0.14	0.14	0.78	14,004
Vendor	0.60	0.48	16.6	6.57	0.16	0.16	6.25	6.09	0.16	1.68	1.84	—	13,858	13,858	0.25	2.21	0.19	14,523
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.47	0.34	6.67	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	2,311	2,311	0.02	0.02	0.13	2,319
Vendor	0.11	0.09	3.04	1.20	0.03	0.03	1.14	1.11	0.03	0.31	0.34	—	2,294	2,294	0.04	0.37	0.03	2,404
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (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 Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	0.33	2.32	11.8	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,903
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.42	2.15	< 0.005	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	315
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.11	3.37	2.22	58.6	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	19,058
Vendor	0.78	0.63	20.1	8.20	0.20	0.20	0.20	7.72	7.92	2.13	2.34	0.20	0.20	0.31	2.79	0.55	0.00	0.00	18,340
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.37	3.31	2.44	44.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	17,212	17,212	0.23	0.17	0.06	17,269
Vendor	0.72	0.58	21.6	8.44	0.20	0.20	7.72	7.92	0.20	2.13	2.34	—	17,527	17,527	0.31	2.79	0.01	18,368
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.62	2.58	1.84	36.5	0.00	0.00	17.2	17.2	0.00	4.02	4.02	—	13,959	13,959	0.14	0.14	0.78	14,004
Vendor	0.60	0.48	16.6	6.57	0.16	0.16	6.09	6.25	0.16	1.68	1.84	—	13,858	13,858	0.25	2.21	0.19	14,523
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.47	0.34	6.67	0.00	0.00	3.13	3.13	0.00	0.73	0.73	—	2,311	2,311	0.02	0.02	0.13	2,319
Vendor	0.11	0.09	3.04	1.20	0.03	0.03	1.11	1.14	0.03	0.31	0.34	—	2,294	2,294	0.04	0.37	0.03	2,404
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (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	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.90	0.76	6.22	11.9	0.02	0.11	—	0.11	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.34	10.2	0.02	0.09	—	0.09	—	0.09	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.97	1.87	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.05	3.31	2.22	58.6	0.00	0.00	21.8	21.8	5.10	5.10	—	18,992	18,992	0.17	0.11	1.89	19,032
Vendor	0.78	0.63	20.1	8.20	0.20	0.20	7.72	7.92	2.13	2.34	—	17,390	17,390	0.31	2.59	0.39	18,170
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.26	2.44	44.6	0.00	0.00	21.8	21.8	5.10	5.10	—	17,189	17,189	0.23	0.17	0.05	17,246
Vendor	0.72	0.58	21.6	8.44	0.20	0.20	7.72	7.92	2.13	2.34	—	17,418	17,418	0.31	2.59	0.01	18,198
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.79	2.74	2.00	39.5	0.00	0.00	18.6	18.6	4.35	4.35	—	—	—	15,099	15,099	0.15	0.15	0.70	15,147	
Vendor	0.65	0.52	17.8	7.12	0.17	0.17	6.59	6.77	1.82	2.00	—	—	—	14,916	14,916	0.27	2.22	0.14	15,584	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.51	0.50	0.36	7.21	0.00	0.00	3.39	3.39	0.79	0.79	—	—	—	2,500	2,500	0.02	0.02	0.12	2,508	
Vendor	0.12	0.09	3.26	1.30	0.03	0.03	1.20	1.23	0.33	0.36	—	—	—	2,469	2,469	0.04	0.37	0.02	2,580	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.10. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	0.06	0.06	0.06	—	0.06	—	—	—	0.06	2,054	0.08	0.02	—	2,061					
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	0.01	0.01	0.01	—	0.01	—	—	—	0.01	340	0.01	< 0.005	—	341					
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.05	3.31	2.22	58.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,992	0.17	0.11	0.11	18,932	1.89	0.39	0.39	19,032	18,170
Vendor	0.78	0.63	20.1	8.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	17,390	0.31	2.59	0.31	17,390	0.39	0.00	0.00	18,170	18,170
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.26	2.44	44.6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17,189	0.23	0.17	0.17	17,189	0.05	0.01	0.01	17,246	18,198
Vendor	0.72	0.58	21.6	8.44	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	17,418	0.31	2.59	0.31	17,418	0.01	0.00	0.00	18,198	18,198
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.79	2.74	2.00	39.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15,099	0.15	0.15	0.15	15,099	0.70	0.14	0.14	15,147	15,584
Vendor	0.65	0.52	17.8	7.12	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	14,916	0.27	2.22	0.27	14,916	0.14	0.00	0.00	15,584	15,584
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.51	0.50	0.36	7.21	0.00	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	2,500	2,500	0.02	0.02	0.12	2,508
Vendor	0.12	0.09	3.26	1.30	0.03	0.03	0.03	1.23	1.20	0.03	0.33	0.36	—	2,469	2,469	0.04	0.37	0.02	2,580
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (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	0.90	0.75	6.19	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	0.75	6.19	11.9	0.02	0.11	—	0.11	0.10	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77	0.65	5.31	10.2	0.02	0.09	—	0.09	0.09	—	0.09	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.97	1.87	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	—	—	—	—	341	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.94	3.20	2.22	58.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	18,972	18,972	0.17	0.11	1.58	0.11	1.58	19,012	—	—	
Vendor	0.78	0.63	19.9	8.20	0.20	0.20	7.72	7.92	0.20	2.13	2.34	—	17,296	17,296	0.31	2.59	0.27	2.59	0.27	18,076	—	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.31	3.20	2.44	44.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	17,170	17,170	0.23	0.17	0.04	0.17	0.04	17,227	—	—	
Vendor	0.72	0.58	21.4	8.44	0.20	0.20	7.72	7.92	0.20	2.13	2.34	—	17,324	17,324	0.31	2.59	0.01	2.59	0.01	18,104	—	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.79	2.69	2.00	39.5	0.00	0.00	18.6	18.6	0.00	4.35	4.35	—	15,083	15,083	0.15	0.15	0.59	0.15	0.59	15,131	—	—	
Vendor	0.65	0.52	17.8	7.12	0.17	0.17	6.59	6.77	0.17	1.82	2.00	—	14,835	14,835	0.27	2.22	0.10	2.22	0.10	15,504	—	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.51	0.49	0.36	7.21	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	2,497	2,497	0.02	0.02	0.10	0.02	0.10	2,505	—	—	
Vendor	0.12	0.09	3.25	1.30	0.03	0.03	1.20	1.23	0.03	0.33	0.36	—	2,456	2,456	0.04	0.37	0.02	0.37	0.02	2,567	—	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3.12. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.94	3.20	2.22	58.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	18,972	18,972	0.17	0.11	1.58	19,012	
Vendor	0.78	0.63	19.9	8.20	0.20	0.20	7.72	7.92	0.20	2.13	2.34	—	17,296	17,296	0.31	2.59	0.27	18,076	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.31	3.20	2.44	44.6	0.00	0.00	21.8	21.8	0.00	5.10	5.10	—	17,170	17,170	0.23	0.17	0.04	17,227	
Vendor	0.72	0.58	21.4	8.44	0.20	0.20	7.72	7.92	0.20	2.13	2.34	—	17,324	17,324	0.31	2.59	0.01	18,104	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.79	2.69	2.00	39.5	0.00	0.00	18.6	18.6	0.00	4.35	4.35	—	15,083	15,083	0.15	0.15	0.59	15,131	
Vendor	0.65	0.52	17.8	7.12	0.17	0.17	6.59	6.77	0.17	1.82	2.00	—	14,835	14,835	0.27	2.22	0.10	15,504	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.51	0.49	0.36	7.21	0.00	0.00	3.39	3.39	0.00	0.79	0.79	—	2,497	2,497	0.02	0.02	0.10	2,505	
Vendor	0.12	0.09	3.25	1.30	0.03	0.03	1.20	1.23	0.03	0.33	0.36	—	2,456	2,456	0.04	0.37	0.02	2,567	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.13. Building Construction (2051) - Unmitigated

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

[illegible]

[illegible]

Worker	—	—	—	—	—	3.18	3.18	—	0.79	0.79	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.95	0.95	—	0.24	0.24	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

3.14. Building Construction (2051) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	5.10	5.10	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	1.52	1.52	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	5.10	5.10	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	1.52	1.52	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	17.5	17.5	4.37	4.37	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	5.21	5.21	1.30	1.30	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	3.19	3.19	0.80	0.80	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.95	0.95	0.24	0.24	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—	—

3.16. Building Construction (2052) - Mitigated

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	20.4	20.4	20.4	—	—	—	—	—	—	—	5.10	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	6.10	6.10	6.10	—	—	—	—	—	—	—	1.52	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	20.4	20.4	20.4	—	—	—	—	—	—	—	5.10	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	6.10	6.10	6.10	—	—	—	—	—	—	—	1.52	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	17.5	17.5	17.5	—	—	—	—	—	—	—	4.37	4.37	—	—	—	—	—	—	—	—

Vendor	—	—	—	—	—	5.21	5.21	—	1.30	1.30	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	3.19	3.19	—	0.80	0.80	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.95	0.95	—	0.24	0.24	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

3.17. Building Construction (2053) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	17.4	17.4	—	4.35	4.35	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	5.20	5.20	—	1.30	1.30	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	3.18	3.18	—	0.79	0.79	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.95	0.95	—	0.24	0.24	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—

3.18. Building Construction (2053) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	20.4	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	6.10	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	20.4	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	6.10	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	17.4	4.35	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	5.20	1.30	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	3.18	0.79	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	0.95	0.24	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—

3.19. Building Construction (2054) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—

Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	17.4	17.4	—	—	4.35	4.35	—	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	5.20	5.20	—	—	1.30	1.30	—	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	3.18	3.18	—	—	0.79	0.79	—	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	0.95	0.95	—	—	0.24	0.24	—	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—

3.20. Building Construction (2054) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	20.4	20.4	—	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	6.10	6.10	—	—	1.52	1.52	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	20.4	20.4	—	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	6.10	6.10	—	—	1.52	1.52	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	17.4	17.4	—	—	4.35	4.35	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	5.20	5.20	—	—	1.30	1.30	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	3.18	3.18	—	—	0.79	0.79	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	0.95	0.95	—	—	0.24	0.24	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	0.00	—	—	—	—	—	—	—

3.21. Building Construction (2055) - Unmitigated

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

[illegible]

[illegible]

Worker	—	—	—	—	—	2.73	2.73	—	0.68	0.68	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.82	0.82	—	0.20	0.20	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—

3.22. Building Construction (2055) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	20.4	20.4	20.4	—	5.10	5.10	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	6.10	6.10	6.10	—	1.52	1.52	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	15.0	15.0	15.0	—	3.74	3.74	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	4.47	4.47	4.47	—	1.12	1.12	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	2.73	2.73	2.73	—	0.68	0.68	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.82	0.82	0.82	—	0.20	0.20	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—	—

3.23. Building Construction_2055 (2050) - Unmitigated

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

[illegible]

Off-Road Equipment	0.90	0.75	6.19	11.9	0.02	0.11	—	0.11	—	0.10	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.56	4.56	8.80	0.02	0.08	—	0.08	0.07	0.07	—	1,766	1,766	0.07	0.01	—	1,772
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.83	1.61	< 0.005	0.01	—	0.01	0.01	0.01	—	292	292	0.01	< 0.005	—	293
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.94	3.20	2.22	58.6	0.00	0.00	21.8	21.8	0.00	5.10	—	18,972	18,972	0.17	0.11	1.58	19,012
Vendor	0.78	0.63	19.9	8.20	0.20	0.20	7.72	7.92	0.20	2.13	—	17,296	17,296	0.31	2.59	0.27	18,076
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.20	2.44	44.6	0.00	0.00	21.8	21.8	0.00	5.10	—	17,170	17,170	0.23	0.17	0.04	17,227
Vendor	0.72	0.58	21.4	8.44	0.20	0.20	7.72	7.92	0.20	2.13	—	17,324	17,324	0.31	2.59	0.01	18,104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.40	2.32	1.72	34.0	0.00	0.00	16.0	16.0	0.00	3.74	3.74	—	12,969	12,969	0.13	0.13	0.51	13,010
Vendor	0.56	0.45	15.3	6.12	0.15	0.15	5.67	5.82	0.15	1.57	1.72	—	12,756	12,756	0.23	1.91	0.08	13,330
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.42	0.31	6.20	0.00	0.00	2.92	2.92	0.00	0.68	0.68	—	2,147	2,147	0.02	0.02	0.08	2,154
Vendor	0.10	0.08	2.80	1.12	0.03	0.03	1.03	1.06	0.03	0.29	0.31	—	2,112	2,112	0.04	0.32	0.01	2,207
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Building Construction_2055 (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.34	0.31	2.16	11.0	0.02	0.06	—	—	0.06	0.05	—	—	1,766	1,766	0.07	0.01	—	1,772
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.39	2.01	< 0.005	0.01	—	—	0.01	0.01	—	—	292	292	0.01	< 0.005	—	293
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.94	3.20	2.22	58.6	0.00	0.00	21.8	21.8	21.8	5.10	5.10	—	18,972	18,972	0.17	0.11	1.58	19,012
Vendor	0.78	0.63	19.9	8.20	0.20	0.20	7.92	7.72	7.92	2.34	2.13	—	17,296	17,296	0.31	2.59	0.27	18,076
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.20	2.44	44.6	0.00	0.00	21.8	21.8	21.8	5.10	5.10	—	17,170	17,170	0.23	0.17	0.04	17,227
Vendor	0.72	0.58	21.4	8.44	0.20	0.20	7.72	7.72	7.92	2.34	2.13	—	17,324	17,324	0.31	2.59	0.01	18,104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.40	2.32	1.72	34.0	0.00	0.00	16.0	16.0	16.0	3.74	3.74	—	12,969	12,969	0.13	0.13	0.51	13,010
Vendor	0.56	0.45	15.3	6.12	0.15	0.15	5.67	5.67	5.82	1.72	1.57	—	12,756	12,756	0.23	1.91	0.08	13,330
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.42	0.31	6.20	0.00	0.00	2.92	2.92	2.92	0.68	0.68	—	2,147	2,147	0.02	0.02	0.08	2,154
Vendor	0.10	0.08	2.80	1.12	0.03	0.03	1.03	1.03	1.06	0.31	0.29	—	2,112	2,112	0.04	0.32	0.01	2,207

3.25. Paving (2055) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	0.12	0.12	—	0.03	0.03	—	—	—	—	—	—	—

Vendor	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	—	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	—	—	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00	—	—	—	—	—	—	—	—	—	—

3.26. Paving (2055) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

3.27. Paving (2056) - Unmitigated

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

[illegible]

[illegible]

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

3.28. Paving (2056) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	0.63	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	0.00	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	0.11	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	0.12	0.12	0.03	0.03	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	0.12	0.12	0.03	0.03	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	0.04	0.04	0.01	0.01	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	0.01	0.01	< 0.005	< 0.005	—	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—	—

3.29. Paving_2055 (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	1,511	1,511	0.06	0.01	—	—	—	—	—	—	1,516	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.06	0.05	0.59	1.17	< 0.005	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	182	182	0.01	< 0.005	—	—	—	—	—	—	183	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.01	0.01	0.11	0.21	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.1	30.1	< 0.005	< 0.005	—	—	—	—	—	—	30.3	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.00	0.00	0.13	0.13	0.00	0.03	0.03	99.4	99.4	< 0.005	< 0.005	—	—	—	—	—	—	99.7	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	< 0.005	12.3	< 0.005	< 0.005	< 0.005	< 0.005	12.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	2.03	< 0.005	< 0.005	< 0.005	< 0.005	2.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Paving_2055 (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.24	2.07	10.4	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	1.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	182	182	0.01	< 0.005	—	183

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	30.1	30.1	< 0.005	< 0.005	—	30.3	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	0.00	—	99.4	99.4	< 0.005	< 0.005	< 0.005	99.7	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	12.3	12.3	< 0.005	< 0.005	< 0.005	12.3	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	2.03	2.03	< 0.005	< 0.005	< 0.005	2.04	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Paving_2056 (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
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	110	110	< 0.005	< 0.005	< 0.005	0.01	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	99.4	99.4	< 0.005	< 0.005	< 0.005	< 0.005	99.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	—	35.7	35.7	< 0.005	< 0.005	< 0.005	< 0.005	35.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	5.91	5.91	< 0.005	< 0.005	< 0.005	< 0.005	5.93
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Paving_2056 (2050) - Mitigated

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

[illegible]

Off-Road Equipm	0.26	0.24	2.07	10.4	0.01	0.04	—	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.24	2.07	10.4	0.01	0.04	—	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.73	3.66	< 0.005	0.01	—	0.01	0.01	0.01	—	530	530	0.02	< 0.005	—	532
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	87.7	87.7	< 0.005	< 0.005	—	88.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.13	0.13	0.00	0.03	0.03	—	110	110	< 0.005	< 0.005	0.01	110
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	99.4	99.4	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	99.7	99.7	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	—	35.7	35.7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	35.8	35.8	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	5.91	5.91	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.93	5.93	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3.33. Architectural Coating (2056) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	175	175	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	—	—	—	—	—	3.85	3.85	—	0.96	0.96	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	0.70	0.70	—	0.18	0.18	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

3.34. Architectural Coating (2056) - 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	59.2	59.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	59.2	59.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect	28.1	28.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect	5.12	5.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ural Coatings																					
Onsite truck	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	8.16	—	—	—	—	—	—	2.04	2.04	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	8.16	—	—	—	—	—	—	2.04	2.04	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	3.85	3.85	3.85	—	—	—	—	—	—	0.96	0.96	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	0.70	0.70	0.70	—	—	—	—	—	—	0.18	0.18	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	0.00	—	—	—	—	—	—	0.00	0.00	—	—	—	—

3.35. Architectural Coating_2056 (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	175	175	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	175	175	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.05	0.04	0.35	0.52	< 0.005	< 0.005	< 0.005	—	< 0.005	—	63.3	63.3	< 0.005	< 0.005	—	63.5
Architectural Coatings	82.9	82.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.5
Architectural Coatings	15.1	15.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.57	1.28	0.89	23.4	0.00	0.00	8.71	8.71	0.00	2.04	7,589	7,589	0.07	0.05	0.63	7,605
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.28	0.98	17.8	0.00	0.00	8.71	8.71	0.00	2.04	6,868	6,868	0.09	0.07	0.02	6,891
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.60	0.44	8.74	0.00	0.00	4.11	4.11	0.00	0.96	3,336	3,336	0.03	0.03	0.13	3,347

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.08	1.60	0.00	0.00	0.00	0.75	0.75	0.18	0.18	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.00	0.00	554	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Architectural Coating_2056 (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	59.2	59.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.33	1.28	0.98	17.8	0.00	0.00	8.71	8.71	0.00	2.04	2.04	—	6,868	6,868	0.09	0.07	0.02	6,891		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	0.62	0.60	0.44	8.74	0.00	0.00	4.11	4.11	0.00	0.96	0.96	—	3,336	3,336	0.03	0.03	0.13	3,347		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	0.11	0.11	0.08	1.60	0.00	0.00	0.75	0.75	0.00	0.18	0.18	—	552	552	0.01	0.01	0.02	554		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00		

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

[illegible]

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
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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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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	1/1/2047	4/19/2047	6.00	94.0	—
Grading	Grading	4/20/2047	1/29/2048	6.00	244	—
Building Construction	Building Construction	1/30/2048	11/10/2055	6.00	2,436	—
Building Construction_2055	Building Construction	1/1/2050	11/10/2050	6.00	269	—
Paving	Paving	11/11/2055	5/30/2056	6.00	173	—
Paving_2055	Paving	11/11/2050	12/31/2050	6.00	44.0	—
Paving_2056	Paving	1/1/2050	5/30/2050	6.00	128	—
Architectural Coating	Architectural Coating	5/31/2056	12/18/2056	6.00	173	—
Architectural Coating_2056	Architectural Coating	5/31/2050	12/18/2050	6.00	173	—

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	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40

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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction_2055	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction_2055	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction_2055	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction_2055	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction_2055	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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
Paving_2055	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving_2055	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving_2055	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving_2056	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving_2056	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving_2056	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
Architectural Coating_2056	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Building Construction_2055	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction_2055	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction_2055	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction_2055	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction_2055	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Paving_2055	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving_2055	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving_2055	Rollers	Diesel	Average	2.00	8.00	36.0	0.38

Paving_2056	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving_2056	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving_2056	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
Architectural Coating_2056	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	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	2,591	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,011	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,036	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Building Construction_2055	—	—	—	—
Building Construction_2055	Worker	2,591	11.9	LDA,LDT1,LDT2
Building Construction_2055	Vendor	1,011	9.10	HHDT,MHDT
Building Construction_2055	Hauling	0.00	20.0	HHDT
Building Construction_2055	Onsite truck	—	—	HHDT
Paving_2055	—	—	—	—
Paving_2055	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving_2055	Vendor	—	9.10	HHDT,MHDT
Paving_2055	Hauling	0.00	20.0	HHDT
Paving_2055	Onsite truck	—	—	HHDT
Paving_2056	—	—	—	—
Paving_2056	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving_2056	Vendor	—	9.10	HHDT,MHDT
Paving_2056	Hauling	0.00	20.0	HHDT
Paving_2056	Onsite truck	—	—	HHDT
Architectural Coating_2056	—	—	—	—
Architectural Coating_2056	Worker	1,036	11.9	LDA,LDT1,LDT2
Architectural Coating_2056	Vendor	—	9.10	HHDT,MHDT
Architectural Coating_2056	Hauling	0.00	20.0	HHDT
Architectural Coating_2056	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	2,591	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	1,011	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	1,036	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Building Construction_2055	—	—	—	—

Building Construction_2055	Worker	2,591	11.9	11.9	LDA,LDT1,LDT2
Building Construction_2055	Vendor	1,011	9.10	9.10	HHDT,MHDT
Building Construction_2055	Hauling	0.00	20.0	20.0	HHDT
Building Construction_2055	Onsite truck	—	—	—	HHDT
Paving_2055	—	—	—	—	—
Paving_2055	Worker	15.0	11.9	11.9	LDA,LDT1,LDT2
Paving_2055	Vendor	—	9.10	9.10	HHDT,MHDT
Paving_2055	Hauling	0.00	20.0	20.0	HHDT
Paving_2055	Onsite truck	—	—	—	HHDT
Paving_2056	—	—	—	—	—
Paving_2056	Worker	15.0	11.9	11.9	LDA,LDT1,LDT2
Paving_2056	Vendor	—	9.10	9.10	HHDT,MHDT
Paving_2056	Hauling	0.00	20.0	20.0	HHDT
Paving_2056	Onsite truck	—	—	—	HHDT
Architectural Coating_2056	—	—	—	—	—
Architectural Coating_2056	Worker	1,036	11.9	11.9	LDA,LDT1,LDT2
Architectural Coating_2056	Vendor	—	9.10	9.10	HHDT,MHDT
Architectural Coating_2056	Hauling	0.00	20.0	20.0	HHDT
Architectural Coating_2056	Onsite truck	—	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	9,253,350	3,084,450	358,586

Architectural Coating_2056	0.00	0.00	9,253,350	3,084,450	358,586
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	141	0.00	—
Grading	—	—	732	0.00	—
Paving	0.00	0.00	0.00	0.00	137
Paving_2055	0.00	0.00	0.00	0.00	137
Paving_2056	0.00	0.00	0.00	0.00	137

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
Industrial Park	0.00	0%
Parking Lot	30.5	100%
Other Non-Asphalt Surfaces	20.6	0%
City Park	0.00	0%
Other Asphalt Surfaces	86.1	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2047	0.00	204	0.03	< 0.005
2048	0.00	204	0.03	< 0.005

2049	0.00	204	0.03	< 0.005
2050	0.00	204	0.03	< 0.005
2051	0.00	204	0.03	< 0.005
2052	0.00	204	0.03	< 0.005
2053	0.00	204	0.03	< 0.005
2054	0.00	204	0.03	< 0.005
2055	0.00	204	0.03	< 0.005
2056	0.00	204	0.03	< 0.005

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—

Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632

Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Project-specific schedule.
Land Use	Land uses are based on Project-specific information.
Construction: Architectural Coatings	—

Pacific Gateway (Gateway Center Development Area Construction) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Gateway Center Development Area Construction)
Construction Start Date	1/1/2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	525	1000sqft	15.8	525,400	163,561	—	—	—
Parking Lot	510	1000sqft	11.7	0.00	0.00	—	—	—

Other Asphalt Surfaces	583	1000sqft	13.4	0.00	0.00	—	—	—	—
Other Non-Asphalt Surfaces	132	1000sqft	3.00	0.00	0.00	—	—	—	—
City Park	9.00	Acre	9.00	0.00	0.00	0.00	—	—	—
Hotel	120	Room	0.60	174,240	15,554	—	—	—	—
Gasoline/Service Station	8.00	Pump	0.60	20,000	7,402	—	—	—	—
Convenience Market (24 hour)	8.00	1000sqft	0.70	8,000	21,113	—	—	—	—
Fast Food Restaurant with Drive Thru	13.6	1000sqft	1.20	13,600	35,892	—	—	—	—
High Turnover (Sit Down Restaurant)	14.0	1000sqft	1.20	14,000	36,948	—	—	—	—
Fast Food Restaurant w/o Drive Thru	4.00	1000sqft	0.30	4,000	10,556	—	—	—	—
Bank (with Drive-Through)	5.00	1000sqft	0.40	5,000	13,196	—	—	—	—
Strip Mall	5.00	1000sqft	0.40	5,000	13,196	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
Construction	C-13	Use Low-VOC Paints for Construction

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.	14.7	14.6	22.3	26.4	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	7,848	7,848	0.27	0.46	7.34	7,998
Mit.	8.34	8.30	6.60	36.0	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	7,848	7,848	0.27	0.46	7.34	7,998
% Reduced	43%	43%	70%	-36%	—	85%	—	4%	83%	—	7%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.7	14.6	22.3	26.3	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	7,607	7,607	0.27	0.46	0.19	7,750
Mit.	8.32	8.30	6.92	35.9	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	7,607	7,607	0.27	0.46	0.19	7,750
% Reduced	43%	43%	69%	-37%	—	85%	—	4%	83%	—	7%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.9	10.9	17.8	22.5	0.05	0.73	12.2	13.0	0.67	5.76	6.44	—	6,467	6,467	0.21	0.40	2.31	6,592
Mit.	6.21	6.18	5.67	27.9	0.05	0.11	12.2	12.4	0.11	5.76	5.87	—	6,467	6,467	0.21	0.40	2.31	6,592
% Reduced	43%	43%	68%	-24%	—	85%	—	5%	84%	—	9%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.99	3.26	4.11	0.01	0.13	2.23	2.37	0.12	1.05	1.18	—	1,071	1,071	0.03	0.07	0.38	1,091
Mit.	1.13	1.13	1.03	5.10	0.01	0.02	2.23	2.25	0.02	1.05	1.07	—	1,071	1,071	0.03	0.07	0.38	1,091
% Reduced	43%	43%	68%	-24%	—	85%	—	5%	84%	—	9%	—	—	—	—	—	—	—

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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.26	2.75	22.3	26.4	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	—	6,760	6,760	0.27	0.05	0.30	6,783	
2033	3.02	2.55	18.6	25.8	0.06	0.73	9.37	10.1	0.68	3.69	4.37	—	—	7,848	7,848	0.27	0.46	7.34	7,998	
2034	1.92	1.69	11.0	23.4	0.05	0.22	3.64	3.86	0.20	0.89	1.10	—	—	7,728	7,728	0.17	0.46	6.25	7,877	
2035	1.89	1.67	10.8	22.9	0.05	0.20	3.64	3.85	0.19	0.89	1.09	—	—	7,617	7,617	0.17	0.44	5.29	7,758	
2036	1.84	1.62	10.5	22.4	0.05	0.19	3.64	3.84	0.18	0.89	1.08	—	—	7,517	7,517	0.17	0.44	4.43	7,657	
2037	1.79	1.57	10.2	22.0	0.05	0.18	3.64	3.83	0.17	0.89	1.06	—	—	7,429	7,429	0.17	0.44	3.68	7,568	
2038	1.76	1.54	10.0	21.8	0.05	0.18	3.64	3.82	0.16	0.89	1.06	—	—	7,340	7,340	0.17	0.41	3.04	7,471	
2039	1.72	1.42	9.84	21.5	0.05	0.17	3.64	3.82	0.16	0.89	1.05	—	—	7,271	7,271	0.16	0.41	2.49	7,401	
2040	1.68	1.39	9.73	21.2	0.05	0.17	3.64	3.81	0.16	0.89	1.05	—	—	7,208	7,208	0.16	0.41	2.03	7,338	
2041	1.66	1.37	9.61	21.1	0.05	0.16	3.64	3.81	0.15	0.89	1.05	—	—	7,153	7,153	0.16	0.41	1.65	7,282	
2042	1.64	1.34	9.53	20.9	0.05	0.16	3.64	3.80	0.15	0.89	1.04	—	—	7,104	7,104	0.16	0.39	1.33	7,225	
2043	1.61	1.31	9.44	20.8	0.05	0.15	3.64	3.80	0.14	0.89	1.04	—	—	7,062	7,062	0.16	0.39	1.07	7,182	
2044	1.56	1.29	9.34	20.6	0.05	0.15	3.64	3.79	0.14	0.89	1.03	—	—	7,025	7,025	0.16	0.38	0.86	7,143	
2045	0.80	0.71	5.08	10.1	0.01	0.08	0.13	0.20	0.07	0.03	0.10	—	—	1,621	1,621	0.06	0.01	0.02	1,627	
2046	14.7	14.6	0.80	2.54	< 0.005	< 0.005	0.54	0.54	< 0.005	0.13	0.13	—	—	604	604	0.01	< 0.005	0.08	605	
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
2032	3.26	2.75	22.3	26.3	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	—	6,744	6,744	0.27	0.05	0.01	6,767	
2033	3.02	2.55	18.6	25.7	0.06	0.73	9.37	10.1	0.68	3.69	4.37	—	—	7,607	7,607	0.27	0.46	0.19	7,750	
2034	1.87	1.65	11.4	21.3	0.05	0.22	3.64	3.86	0.20	0.89	1.10	—	—	7,490	7,490	0.18	0.46	0.16	7,633	
2035	1.84	1.62	11.1	20.9	0.05	0.20	3.64	3.85	0.19	0.89	1.09	—	—	7,382	7,382	0.18	0.44	0.14	7,517	
2036	1.81	1.59	10.7	20.5	0.05	0.19	3.64	3.84	0.18	0.89	1.08	—	—	7,285	7,285	0.17	0.44	0.11	7,420	
2037	1.76	1.54	10.5	20.1	0.05	0.18	3.64	3.83	0.17	0.89	1.06	—	—	7,198	7,198	0.17	0.44	0.10	7,334	
2038	1.72	1.42	10.3	19.8	0.05	0.18	3.64	3.82	0.16	0.89	1.06	—	—	7,112	7,112	0.17	0.41	0.08	7,240	
2039	1.70	1.40	10.1	19.6	0.05	0.17	3.64	3.82	0.16	0.89	1.05	—	—	7,044	7,044	0.17	0.41	0.06	7,172	
2040	1.66	1.36	10.0	19.5	0.05	0.17	3.64	3.81	0.16	0.89	1.05	—	—	6,983	6,983	0.17	0.41	0.05	7,111	

2041	1.63	1.33	9.92	19.3	0.05	0.16	3.64	3.81	0.15	0.89	1.05	—	6,929	6,929	0.16	0.41	0.04	7,057
2042	1.62	1.32	9.74	19.1	0.05	0.16	3.64	3.80	0.15	0.89	1.04	—	6,881	6,881	0.16	0.39	0.03	7,002
2043	1.60	1.31	9.65	19.0	0.05	0.15	3.64	3.80	0.14	0.89	1.04	—	6,840	6,840	0.16	0.39	0.03	6,960
2044	1.54	1.28	9.54	18.9	0.05	0.15	3.64	3.79	0.14	0.89	1.03	—	6,804	6,804	0.16	0.39	0.02	6,924
2045	1.44	1.26	9.48	18.8	0.05	0.14	3.64	3.79	0.14	0.89	1.03	—	6,773	6,773	0.16	0.39	0.02	6,893
2046	14.7	14.6	5.04	9.97	0.01	0.07	0.54	0.54	0.07	0.13	0.13	—	1,611	1,611	0.06	0.01	< 0.005	1,616
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	2.72	2.30	17.8	22.5	0.05	0.73	12.2	13.0	0.67	5.76	6.44	—	5,261	5,261	0.21	0.04	0.11	5,279
2033	2.25	1.92	13.8	20.9	0.05	0.48	6.28	6.75	0.44	2.31	2.75	—	6,062	6,062	0.20	0.17	1.03	6,119
2034	1.60	1.40	9.57	18.4	0.04	0.19	3.11	3.30	0.17	0.76	0.94	—	6,467	6,467	0.15	0.40	2.31	6,592
2035	1.58	1.38	9.34	18.1	0.04	0.18	3.11	3.29	0.16	0.76	0.93	—	6,374	6,374	0.15	0.38	1.96	6,492
2036	1.56	1.37	9.10	17.8	0.04	0.17	3.12	3.29	0.16	0.77	0.92	—	6,307	6,307	0.15	0.38	1.65	6,425
2037	1.51	1.32	8.90	17.4	0.04	0.16	3.11	3.27	0.15	0.76	0.91	—	6,216	6,216	0.15	0.38	1.36	6,333
2038	1.48	1.29	8.77	17.2	0.04	0.15	3.11	3.26	0.14	0.76	0.90	—	6,141	6,141	0.14	0.35	1.13	6,252
2039	1.45	1.19	8.61	17.0	0.04	0.15	3.11	3.26	0.14	0.76	0.90	—	6,083	6,083	0.14	0.35	0.92	6,193
2040	1.43	1.18	8.47	16.9	0.04	0.14	3.12	3.26	0.13	0.77	0.90	—	6,047	6,047	0.14	0.36	0.75	6,157
2041	1.40	1.15	8.35	16.7	0.04	0.14	3.11	3.25	0.13	0.76	0.89	—	5,984	5,984	0.14	0.35	0.61	6,094
2042	1.38	1.13	8.27	16.6	0.04	0.14	3.11	3.25	0.13	0.76	0.89	—	5,943	5,943	0.14	0.33	0.49	6,046
2043	1.37	1.11	8.20	16.5	0.04	0.13	3.11	3.24	0.12	0.76	0.89	—	5,907	5,907	0.14	0.33	0.40	6,010
2044	1.33	1.10	8.14	16.4	0.04	0.13	3.12	3.25	0.12	0.77	0.89	—	5,892	5,892	0.14	0.33	0.32	5,995
2045	0.83	0.72	5.18	10.3	0.02	0.08	0.78	0.86	0.07	0.19	0.26	—	2,386	2,386	0.07	0.08	0.06	2,413
2046	10.9	10.9	0.97	2.42	< 0.005	0.01	0.40	0.41	0.01	0.09	0.10	—	543	543	0.01	< 0.005	0.03	545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.50	0.42	3.26	4.11	0.01	0.13	2.23	2.37	0.12	1.05	1.18	—	871	871	0.03	0.01	0.02	874
2033	0.41	0.35	2.51	3.81	0.01	0.09	1.15	1.23	0.08	0.42	0.50	—	1,004	1,004	0.03	0.03	0.17	1,013
2034	0.29	0.26	1.75	3.36	0.01	0.03	0.57	0.60	0.03	0.14	0.17	—	1,071	1,071	0.02	0.07	0.38	1,091
2035	0.29	0.25	1.70	3.30	0.01	0.03	0.57	0.60	0.03	0.14	0.17	—	1,055	1,055	0.02	0.06	0.32	1,075
2036	0.28	0.25	1.66	3.24	0.01	0.03	0.57	0.60	0.03	0.14	0.17	—	1,044	1,044	0.02	0.06	0.27	1,064

2037	0.28	0.24	1.62	3.18	0.01	0.03	0.57	0.60	0.03	0.14	0.17	—	1,029	1,029	0.02	0.06	0.23	1,049
2038	0.27	0.24	1.60	3.15	0.01	0.03	0.57	0.60	0.03	0.14	0.17	—	1,017	1,017	0.02	0.06	0.19	1,035
2039	0.27	0.22	1.57	3.10	0.01	0.03	0.57	0.59	0.02	0.14	0.16	—	1,007	1,007	0.02	0.06	0.15	1,025
2040	0.26	0.21	1.54	3.08	0.01	0.03	0.57	0.60	0.02	0.14	0.16	—	1,001	1,001	0.02	0.06	0.12	1,019
2041	0.25	0.21	1.52	3.05	0.01	0.03	0.57	0.59	0.02	0.14	0.16	—	991	991	0.02	0.06	0.10	1,009
2042	0.25	0.21	1.51	3.02	0.01	0.02	0.57	0.59	0.02	0.14	0.16	—	984	984	0.02	0.06	0.08	1,001
2043	0.25	0.20	1.50	3.01	0.01	0.02	0.57	0.59	0.02	0.14	0.16	—	978	978	0.02	0.06	0.07	995
2044	0.24	0.20	1.48	3.00	0.01	0.02	0.57	0.59	0.02	0.14	0.16	—	975	975	0.02	0.06	0.05	993
2045	0.15	0.13	0.95	1.88	< 0.005	0.01	0.14	0.16	0.01	0.03	0.05	—	395	395	0.01	0.01	0.01	400
2046	1.99	1.99	0.18	0.44	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	89.9	89.9	< 0.005	< 0.005	< 0.005	90.2

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.82	0.79	4.71	36.0	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	6,760	6,760	0.27	0.05	0.30	6,783
2033	1.40	1.30	6.60	36.0	0.06	0.14	9.37	9.51	0.14	3.69	3.83	—	7,848	7,848	0.27	0.46	7.34	7,998
2034	1.35	1.24	6.46	25.5	0.05	0.10	3.64	3.75	0.10	0.89	1.00	—	7,728	7,728	0.17	0.46	6.25	7,877
2035	1.34	1.24	6.37	25.1	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,617	7,617	0.17	0.44	5.29	7,758
2036	1.31	1.20	6.29	24.7	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,517	7,517	0.17	0.44	4.43	7,657
2037	1.28	1.17	6.14	24.4	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,429	7,429	0.17	0.44	3.68	7,568
2038	1.25	1.15	6.06	24.2	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,340	7,340	0.17	0.41	3.04	7,471
2039	1.22	1.03	6.00	24.0	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,271	7,271	0.16	0.41	2.49	7,401
2040	1.18	1.00	5.96	23.8	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,208	7,208	0.16	0.41	2.03	7,338
2041	1.17	0.99	5.90	23.6	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,153	7,153	0.16	0.41	1.65	7,282
2042	1.15	0.96	5.86	23.5	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,104	7,104	0.16	0.39	1.33	7,225
2043	1.13	0.94	5.83	23.4	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,062	7,062	0.16	0.39	1.07	7,182

2044	1.09	0.93	5.79	23.3	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,025	7,025	0.16	0.38	0.86	7,143
2045	0.54	0.51	2.10	10.8	0.01	0.04	0.13	0.17	0.04	0.03	0.07	—	1,621	1,621	0.06	0.01	0.02	1,627
2046	8.34	8.30	0.80	2.54	< 0.005	0.54	0.54	0.54	< 0.005	0.13	0.13	—	604	604	0.01	< 0.005	0.08	605
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.81	0.78	4.72	35.9	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	6,744	6,744	0.27	0.05	0.01	6,767
2033	1.34	1.23	6.92	35.8	0.06	0.14	9.37	9.51	0.14	3.69	3.83	—	7,607	7,607	0.27	0.46	0.19	7,750
2034	1.31	1.20	6.81	23.4	0.05	0.10	3.64	3.75	0.10	0.89	1.00	—	7,490	7,490	0.18	0.46	0.16	7,633
2035	1.29	1.19	6.68	23.1	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,382	7,382	0.18	0.44	0.14	7,517
2036	1.28	1.17	6.52	22.8	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,285	7,285	0.17	0.44	0.11	7,420
2037	1.25	1.14	6.42	22.5	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,198	7,198	0.17	0.44	0.10	7,334
2038	1.21	1.02	6.35	22.3	0.05	0.10	3.64	3.75	0.10	0.89	0.99	—	7,112	7,112	0.17	0.41	0.08	7,240
2039	1.20	1.01	6.31	22.1	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	7,044	7,044	0.17	0.41	0.06	7,172
2040	1.16	0.97	6.25	22.0	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,983	6,983	0.17	0.41	0.05	7,111
2041	1.14	0.95	6.21	21.8	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,929	6,929	0.16	0.41	0.04	7,057
2042	1.13	0.95	6.07	21.7	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,881	6,881	0.16	0.39	0.03	7,002
2043	1.12	0.94	6.03	21.7	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,840	6,840	0.16	0.39	0.03	6,960
2044	1.07	0.92	6.00	21.5	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,804	6,804	0.16	0.39	0.02	6,924
2045	0.98	0.91	5.99	21.5	0.05	0.10	3.64	3.74	0.10	0.89	0.99	—	6,773	6,773	0.16	0.39	0.02	6,893
2046	8.32	8.30	2.10	10.7	0.01	0.04	0.54	0.54	0.04	0.13	0.13	—	1,611	1,611	0.06	0.01	< 0.005	1,616
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.59	0.58	3.20	27.9	0.05	0.11	12.2	12.4	0.10	5.76	5.87	—	5,261	5,261	0.21	0.04	0.11	5,279
2033	0.85	0.81	4.68	27.1	0.05	0.11	6.28	6.39	0.11	2.31	2.42	—	6,062	6,062	0.20	0.17	1.03	6,119
2034	1.11	1.02	5.67	20.2	0.04	0.09	3.11	3.20	0.09	0.76	0.85	—	6,467	6,467	0.15	0.40	2.31	6,592
2035	1.11	1.01	5.58	20.0	0.04	0.09	3.11	3.20	0.09	0.76	0.85	—	6,374	6,374	0.15	0.38	1.96	6,492
2036	1.10	1.01	5.51	19.8	0.04	0.09	3.12	3.21	0.08	0.77	0.85	—	6,307	6,307	0.15	0.38	1.65	6,425
2037	1.07	0.98	5.43	19.5	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	6,216	6,216	0.15	0.38	1.36	6,333

2038	1.04	0.95	5.37	19.3	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	6,141	6,141	0.14	0.35	1.13	6,252
2039	1.03	0.86	5.31	19.1	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	6,083	6,083	0.14	0.35	0.92	6,193
2040	1.00	0.85	5.22	19.1	0.04	0.09	3.12	3.21	0.08	0.77	0.85	—	6,047	6,047	0.14	0.36	0.75	6,157
2041	0.98	0.82	5.16	18.9	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	5,984	5,984	0.14	0.35	0.61	6,094
2042	0.97	0.81	5.13	18.8	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	5,943	5,943	0.14	0.33	0.49	6,046
2043	0.96	0.80	5.10	18.8	0.04	0.09	3.11	3.20	0.08	0.76	0.85	—	5,907	5,907	0.14	0.33	0.40	6,010
2044	0.93	0.79	5.08	18.7	0.04	0.09	3.12	3.21	0.08	0.77	0.85	—	5,892	5,892	0.14	0.33	0.32	5,995
2045	0.57	0.51	2.53	11.3	0.02	0.05	0.78	0.83	0.04	0.19	0.24	—	2,386	2,386	0.07	0.08	0.06	2,413
2046	6.21	6.18	0.75	2.47	< 0.005	0.01	0.40	0.41	0.01	0.09	0.10	—	543	543	0.01	< 0.005	0.03	545
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.11	0.10	0.58	5.10	0.01	0.02	2.23	2.25	0.02	1.05	1.07	—	871	871	0.03	0.01	0.02	874
2033	0.16	0.15	0.85	4.95	0.01	0.02	1.15	1.17	0.02	0.42	0.44	—	1,004	1,004	0.03	0.03	0.17	1,013
2034	0.20	0.19	1.03	3.69	0.01	0.02	0.57	0.58	0.02	0.14	0.16	—	1,071	1,071	0.02	0.07	0.38	1,091
2035	0.20	0.18	1.02	3.65	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	1,055	1,055	0.02	0.06	0.32	1,075
2036	0.20	0.18	1.01	3.60	0.01	0.02	0.57	0.59	0.02	0.14	0.16	—	1,044	1,044	0.02	0.06	0.27	1,064
2037	0.19	0.18	0.99	3.55	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	1,029	1,029	0.02	0.06	0.23	1,049
2038	0.19	0.17	0.98	3.53	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	1,017	1,017	0.02	0.06	0.19	1,035
2039	0.19	0.16	0.97	3.49	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	1,007	1,007	0.02	0.06	0.15	1,025
2040	0.18	0.15	0.95	3.48	0.01	0.02	0.57	0.59	0.02	0.14	0.15	—	1,001	1,001	0.02	0.06	0.12	1,019
2041	0.18	0.15	0.94	3.45	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	991	991	0.02	0.06	0.10	1,009
2042	0.18	0.15	0.94	3.43	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	984	984	0.02	0.06	0.08	1,001
2043	0.18	0.15	0.93	3.42	0.01	0.02	0.57	0.58	0.02	0.14	0.15	—	978	978	0.02	0.06	0.07	995
2044	0.17	0.14	0.93	3.42	0.01	0.02	0.57	0.59	0.02	0.14	0.15	—	975	975	0.02	0.06	0.05	993
2045	0.10	0.09	0.46	2.07	< 0.005	0.01	0.14	0.15	0.01	0.03	0.04	—	395	395	0.01	0.01	0.01	400
2046	1.13	1.13	0.14	0.45	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	89.9	89.9	< 0.005	< 0.005	< 0.005	90.2

3. Construction Emissions Details

3.1. Site Preparation (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 Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.30	1.09	8.97	10.4	0.02	0.37	—	0.37	0.34	—	0.34	—	2,133	2,133	0.09	0.02	—	2,140

Dust From Material Movement	—	—	—	—	—	7.92	7.92	—	4.07	4.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.64	1.89	< 0.005	0.07	—	0.07	0.06	—	0.06	—	353	353	0.01	< 0.005	—
Dust From Material Movement	—	—	—	—	—	—	1.44	1.44	—	0.74	0.74	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.15	0.15	0.03	0.03	—	143	143	< 0.005	< 0.005	0.27	144
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.03	0.03	—	130	130	< 0.005	< 0.005	0.01	130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.06	0.06	0.01	0.01	—	53.5	53.5	< 0.005	< 0.005	0.05	53.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.85	8.85	< 0.005	< 0.005	0.01	8.89	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (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	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.04	11.4	0.02	0.04	—	7.92	7.92	0.00	0.00	0.04	0.04	0.00	0.04	0.00	0.00	2,133	2,133	0.09	0.02	—	—	2,140
Dust From Material Movement	—	—	—	—	—	—	—	7.92	4.07	4.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.19	2.08	< 0.005	0.01	—	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	353	353	0.01	< 0.005	—	—	354
Dust From Material Movement	—	—	—	—	—	—	—	1.44	0.74	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.15	0.15	0.03	0.03	0.03	0.03	0.00	0.00	0.03	0.03	0.00	143	143	< 0.005	< 0.005	0.27	—	144
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.03	0.03	0.03	0.03	0.00	0.00	0.03	0.03	0.00	130	130	< 0.005	< 0.005	0.01	—	130

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.18	0.00	0.00	0.00	0.06	0.06	0.00	0.01	0.01	0.01	53.5	< 0.005	< 0.005	0.05	53.7	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	8.85	< 0.005	< 0.005	0.01	8.89	0.00	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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 Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.39	1.17	8.84	11.7	0.03	0.36	—	0.36	0.33	—	0.33	—	3,005	3,005	0.12	0.02	—	3,015
Dust From Material Movement	—	—	—	—	—	—	4.19	4.19	—	1.66	1.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.21	1.61	2.14	0.01	0.07	—	0.07	0.06	—	0.06	—	498	498	0.02	< 0.005	—	499
Dust From Material Movement	—	—	—	—	—	—	0.77	0.77	—	0.30	0.30	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.65	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	164	164	< 0.005	< 0.005	0.30	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.00	148	148	< 0.005	< 0.005	0.01	149	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.08	0.08	0.00	0.02	0.02	0.00	69.1	69.1	< 0.005	< 0.005	0.06	69.4	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	11.4	11.4	< 0.005	< 0.005	0.01	11.5	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (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	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	0.14	—	0.14	0.00	0.00	0.00	0.00	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.34	2.13	16.1	0.03	0.07	—	0.07	0.06	0.06	—	0.06	0.00	0.00	0.00	0.00	3,005	3,005	0.12	0.02	—	3,015
Dust From Material Movement	—	—	—	—	—	—	—	4.19	4.19	—	1.66	1.66	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.39	2.94	0.01	0.01	—	0.01	0.01	0.01	—	0.01	0.00	0.00	0.00	0.00	498	498	0.02	< 0.005	—	499
Dust From Material Movement	—	—	—	—	—	—	—	0.77	0.77	—	0.30	0.30	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.65	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	164	164	< 0.005	< 0.005	0.30	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	148	148	< 0.005	< 0.005	0.01	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	69.1	69.1	< 0.005	< 0.005	0.06	69.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	11.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2033) - Unmitigated

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

[illegible]

Off-Road	2.97	2.50	18.5	25.2	0.06	0.73	—	0.73	0.68	—	0.68	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	3.65	—	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.97	2.50	18.5	25.2	0.06	0.73	—	0.73	0.68	—	0.68	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	3.65	—	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.64	1.38	10.2	13.9	0.03	0.41	—	0.41	0.37	—	0.37	—	3,640	3,640	0.15	0.03	—	3,653
Dust From Material Movement	—	—	—	—	—	—	5.08	5.08	2.02	—	2.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	1.87	2.54	0.01	0.07	—	0.07	0.07	—	0.07	—	603	603	0.02	< 0.005	—	605

Dust From Material Movement	—	—	—	—	—	0.93	0.93	—	0.37	0.37	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.62	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.26	162
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.48	0.00	0.17	0.17	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.01	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.09	0.09	0.00	0.02	0.02	—	82.6	82.6	< 0.005	< 0.005	0.06	82.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.01	13.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (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	0.76	0.73	4.67	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.73	4.67	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	0.40	2.58	19.5	0.03	0.08	—	0.08	0.08	—	0.08	—	3,640	3,640	0.15	0.03	—	3,653
Dust From Material Movement	—	—	—	—	—	—	5.08	5.08	—	2.02	2.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.47	3.56	0.01	0.01	—	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Dust From Material Movement	—	—	—	—	—	0.93	0.93	—	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.62	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.48	0.00	0.17	0.17	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.09	0.09	0.00	0.02	0.02	—	82.6	82.6	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

3.7. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.34	3.90	0.01	0.06	—	0.06	0.06	—	0.06	—	732	732	0.03	0.01	—	734
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.06	0.05	0.43	0.71	< 0.005	0.01	—	0.01	0.01	—	0.01	—	121	121	< 0.005	< 0.005	—	122
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.81	0.79	0.40	9.88	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,577	2,577	0.04	0.02	4.21	2,588
Vendor	0.13	0.08	3.23	1.17	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,875	2,875	0.04	0.42	3.13	3,005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.74	0.52	7.71	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,332	2,332	0.04	0.02	0.11	2,339
Vendor	0.12	0.07	3.43	1.20	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,878	2,878	0.04	0.42	0.08	3,006
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.15	2.44	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	729	729	0.01	0.01	0.56	732
Vendor	0.04	0.02	1.03	0.36	0.01	0.01	0.29	0.30	0.01	0.08	0.09	—	878	878	0.01	0.13	0.41	917
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.09	121
Vendor	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	145	145	< 0.005	0.02	0.07	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.81	0.79	0.40	9.88	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,577	2,577	0.04	0.02	4.21	2,588
Vendor	0.13	0.08	3.23	1.17	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,875	2,875	0.04	0.42	3.13	3,005
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.74	0.52	7.71	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,332	2,332	0.04	0.02	0.11	2,339
Vendor	0.12	0.07	3.43	1.20	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,878	2,878	0.04	0.42	0.08	3,006
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.15	2.44	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	729	729	0.01	0.01	0.56	732
Vendor	0.04	0.02	1.03	0.36	0.01	0.01	0.29	0.30	0.01	0.08	0.09	—	878	878	0.01	0.13	0.41	917
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.09	121
Vendor	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	145	145	< 0.005	0.02	0.07	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.52	12.8	0.02	0.19	0.19	0.18	0.00	0.00	0.00	0.18	0.00	0.00	2,397	2,397	0.10	0.02	—	—	2,405	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.88	0.74	6.45	10.9	0.02	0.16	0.16	0.15	0.00	0.00	0.00	0.15	0.00	0.08	2,054	2,054	0.08	0.02	—	—	2,061	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.16	0.14	1.18	2.00	<0.005	0.03	0.03	0.03	0.00	0.03	0.00	0.03	0.00	0.01	340	340	0.01	<0.005	—	—	341	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.76	0.75	0.39	9.46	0.00	0.00	0.00	0.00	0.63	0.00	0.63	0.63	0.00	0.03	2,544	2,544	0.03	0.02	3.63	2,555		
Vendor	0.13	0.08	3.11	1.14	0.03	0.03	0.96	0.99	0.27	0.03	0.27	0.29	0.04	0.04	2,787	2,787	0.04	0.42	2.63	2,917		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Worker	0.72	0.71	0.51	7.32	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,303	2,303	0.04	0.02	0.09	2,310
Vendor	0.12	0.07	3.34	1.18	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,790	2,790	0.04	0.42	0.07	2,918
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.60	0.35	6.46	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	2,023	2,023	0.03	0.02	1.34	2,030
Vendor	0.11	0.06	2.78	0.99	0.02	0.02	0.82	0.84	0.02	0.23	0.25	—	2,390	2,390	0.04	0.36	0.97	2,500
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.18	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	335	335	< 0.005	< 0.005	0.22	336
Vendor	0.02	0.01	0.51	0.18	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	396	396	0.01	0.06	0.16	414
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. 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	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.54	12.8	0.02	0.07	—	0.07	0.06	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.75	0.39	9.46	0.00	0.00	2.68	2.68	0.00	0.63	—	2,544	2,544	0.03	0.02	3.63	2,555
Vendor	0.13	0.08	3.11	1.14	0.03	0.03	0.96	0.99	0.03	0.27	—	2,787	2,787	0.04	0.42	2.63	2,917
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.71	0.51	7.32	0.00	0.00	2.68	2.68	0.00	0.63	—	2,303	2,303	0.04	0.02	0.09	2,310
Vendor	0.12	0.07	3.34	1.18	0.03	0.03	0.96	0.99	0.03	0.27	—	2,790	2,790	0.04	0.42	0.07	2,918
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.60	0.35	6.46	0.00	0.00	2.29	2.29	2.29	0.54	0.54	0.54	—	2,023	2,023	2,023	0.03	0.02	1.34	2,030				
Vendor	0.11	0.06	2.78	0.99	0.02	0.02	0.82	0.82	0.84	0.23	0.25	0.25	—	2,390	2,390	2,390	0.04	0.36	0.97	2,500				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	0.11	0.11	0.06	1.18	0.00	0.00	0.42	0.42	0.42	0.10	0.10	0.10	—	335	335	335	< 0.005	< 0.005	0.22	336				
Vendor	0.02	0.01	0.51	0.18	< 0.005	< 0.005	0.15	0.15	0.15	< 0.005	0.04	0.05	—	396	396	396	0.01	0.06	0.16	414				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.11. 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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	6.29	10.9	0.02	0.15	—	0.15	0.14	—	0.14	—	0.14	—	2,054	2,054	0.08	0.02	—	2,061					
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.15	1.98	< 0.005	0.03	—	0.03	0.03	—	0.03	—	0.03	—	340	340	0.01	< 0.005	—	341					
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.74	0.39	9.05	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,516	2,516	0.03	0.02	0.02	0.02	3.11	2,526					
Vendor	0.13	0.08	3.02	1.11	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,705	2,705	0.04	0.40	0.40	0.40	2.18	2,827					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.70	0.50	7.03	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,277	2,277	0.04	0.02	0.02	0.02	0.08	2,284					
Vendor	0.12	0.07	3.22	1.15	0.03	0.03	0.96	0.99	0.03	0.27	0.29	—	2,708	2,708	0.04	0.40	0.40	0.40	0.06	2,828					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.59	0.35	6.24	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	2,000	2,000	0.03	0.02	0.02	0.02	1.15	2,007					
Vendor	0.11	0.06	2.70	0.97	0.02	0.02	0.82	0.84	0.02	0.23	0.25	—	2,320	2,320	0.04	0.34	0.34	0.34	0.81	2,423					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.11	0.06	1.14	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	331	331	< 0.005	< 0.005	0.19	332
Vendor	0.02	0.01	0.49	0.18	< 0.005	0.15	0.15	0.005	0.04	0.05	—	—	384	384	0.01	0.06	0.13	401
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. 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	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.53	12.8	0.02	0.07	—	0.07	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	—	0.01	—	—	—	340	340	0.01	< 0.005	—	—	—	341	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.75	0.74	0.39	9.05	0.00	0.00	2.68	2.68	0.00	0.63	0.63	0.00	—	—	—	2,516	2,516	0.03	0.02	0.02	3.11	2,526	2,526	—
Vendor	0.13	0.08	3.02	1.11	0.03	0.03	0.96	0.99	0.03	0.27	0.29	0.03	—	—	—	2,705	2,705	0.04	0.40	0.40	2.18	2,827	2,827	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.70	0.50	7.03	0.00	0.00	2.68	2.68	0.00	0.63	0.63	0.00	—	—	—	2,277	2,277	0.04	0.02	0.02	0.08	2,284	2,284	—
Vendor	0.12	0.07	3.22	1.15	0.03	0.03	0.96	0.99	0.03	0.27	0.29	0.03	—	—	—	2,708	2,708	0.04	0.40	0.40	0.06	2,828	2,828	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.59	0.35	6.24	0.00	0.00	2.29	2.29	0.00	0.54	0.54	0.00	—	—	—	2,000	2,000	0.03	0.02	0.02	1.15	2,007	2,007	—
Vendor	0.11	0.06	2.70	0.97	0.02	0.02	0.82	0.84	0.02	0.23	0.25	0.02	—	—	—	2,320	2,320	0.04	0.34	0.34	0.81	2,423	2,423	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.14	0.00	0.00	0.42	0.42	0.00	0.10	0.10	0.00	—	—	—	331	331	< 0.005	< 0.005	< 0.005	0.19	332	332	—
Vendor	0.02	0.01	0.49	0.18	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	< 0.005	—	—	—	384	384	0.01	0.06	0.06	0.13	401	401	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—

3.13. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.12	10.8	0.02	0.14	—	0.14	0.13	—	0.13	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.12	1.98	< 0.005	0.03	—	0.03	0.02	—	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.71	0.38	8.65	0.00	0.00	2.68	2.68	0.00	0.63	0.63	0.63	—	2,490	2,490	0.03	0.02	2.64	2,500
Vendor	0.13	0.08	2.96	1.11	0.03	0.03	0.96	0.99	0.03	0.27	0.29	0.29	—	2,631	2,631	0.04	0.40	1.79	2,752
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.68	0.41	6.76	0.00	0.00	2.68	2.68	0.00	0.63	0.63	0.63	—	2,254	2,254	0.04	0.02	0.07	2,261
Vendor	0.12	0.07	3.16	1.15	0.03	0.03	0.96	0.99	0.03	0.27	0.29	0.29	—	2,634	2,634	0.04	0.40	0.05	2,754
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.59	0.34	5.96	0.00	0.00	2.30	2.30	0.00	0.54	0.54	0.54	—	1,985	1,985	0.03	0.02	0.98	1,992
Vendor	0.11	0.06	2.64	0.97	0.02	0.02	0.82	0.85	0.02	0.23	0.25	0.25	—	2,262	2,262	0.04	0.34	0.66	2,366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.09	0.00	0.00	0.42	0.42	0.00	0.10	0.10	0.10	—	329	329	0.01	< 0.005	0.16	330
Vendor	0.02	0.01	0.48	0.18	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	0.05	—	375	375	0.01	0.06	0.11	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Building Construction (2036) - Mitigated

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

[illegible]

Off-Road	0.46	0.42	2.95	14.9	0.02	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.53	12.8	0.02	0.07	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	0.01	—	0.01	—	341	341	0.01	< 0.005	—	342
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.71	0.38	8.65	0.00	0.00	0.00	2.68	2.68	0.63	2,490	2,490	0.03	0.02	2.64	2,500
Vendor	0.13	0.08	2.96	1.11	0.03	0.03	0.03	0.96	0.99	0.27	2,631	2,631	0.04	0.40	1.79	2,752
Hauling	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.68	0.41	6.76	0.00	0.00	2.68	2.68	2.68	2.68	0.63	0.63	0.63	—	2,254	2,254	0.04	0.02	0.07	2,261	2,261	0.07	2,261
Vendor	0.12	0.07	3.16	1.15	0.03	0.03	0.96	0.96	0.96	0.99	0.27	0.29	0.29	—	2,634	2,634	0.04	0.40	0.05	2,754	2,754	0.05	2,754
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.59	0.34	5.96	0.00	0.00	2.30	2.30	2.30	2.30	0.54	0.54	0.54	—	1,985	1,985	0.03	0.02	0.98	1,992	1,992	0.98	1,992
Vendor	0.11	0.06	2.64	0.97	0.02	0.02	0.82	0.82	0.82	0.85	0.23	0.25	0.25	—	2,262	2,262	0.04	0.34	0.66	2,366	2,366	0.66	2,366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.09	0.00	0.00	0.42	0.42	0.42	0.42	0.10	0.10	0.10	—	329	329	0.01	< 0.005	0.16	330	330	0.16	330
Vendor	0.02	0.01	0.48	0.18	< 0.005	< 0.005	0.15	0.15	0.15	0.15	0.04	0.05	0.05	—	375	375	0.01	0.06	0.11	392	392	0.11	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	5.99	10.7	0.02	0.14	—	0.14	—	0.12	—	0.12	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.09	1.96	< 0.005	0.02	—	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.67	0.30	8.42	0.00	0.00	2.68	2.68	0.63	0.63	—	0.63	—	2,467	2,467	0.03	0.02	2.24	2,477
Vendor	0.13	0.08	2.89	1.09	0.03	0.03	0.96	0.99	0.27	0.29	—	0.27	—	2,565	2,565	0.04	0.40	1.44	2,686
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.41	6.50	0.00	0.00	2.68	2.68	0.63	0.63	—	0.63	—	2,233	2,233	0.04	0.02	0.06	2,241
Vendor	0.12	0.07	3.07	1.12	0.03	0.03	0.96	0.99	0.27	0.29	—	0.27	—	2,568	2,568	0.04	0.40	0.04	2,688
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.57	0.55	0.34	5.74	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	1,962	1,962	0.03	0.02	0.83	1,969
Vendor	0.11	0.06	2.57	0.95	0.02	0.02	0.82	0.84	0.02	0.23	0.25	—	2,200	2,200	0.04	0.34	0.53	2,303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.05	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	325	325	< 0.005	< 0.005	0.14	326
Vendor	0.02	0.01	0.47	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	364	364	0.01	0.06	0.09	381
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. 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 Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.67	0.30	8.42	0.00	0.00	2.68	2.68	0.63	0.63	—	2,467	2,467	0.03	0.02	2.24	2,477
Vendor	0.13	0.08	2.89	1.09	0.03	0.03	0.96	0.99	0.27	0.29	—	2,565	2,565	0.04	0.40	1.44	2,686
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.41	6.50	0.00	0.00	2.68	2.68	0.63	0.63	—	2,233	2,233	0.04	0.02	0.06	2,241
Vendor	0.12	0.07	3.07	1.12	0.03	0.03	0.96	0.99	0.27	0.29	—	2,568	2,568	0.04	0.40	0.04	2,688
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.57	0.55	0.34	5.74	0.00	0.00	2.29	2.29	0.54	0.54	—	1,962	1,962	0.03	0.02	0.83	1,969
Vendor	0.11	0.06	2.57	0.95	0.02	0.02	0.82	0.84	0.23	0.25	—	2,200	2,200	0.04	0.34	0.53	2,303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.05	0.00	0.00	0.42	0.42	0.10	0.10	—	325	325	< 0.005	< 0.005	0.14	326
Vendor	0.02	0.01	0.47	0.17	< 0.005	< 0.005	0.15	0.15	0.04	0.05	—	364	364	0.01	0.06	0.09	381

3.17. Building Construction (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	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.70	5.91	10.7	0.02	0.13	—	0.13	0.12	—	0.12	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.15	0.13	1.08	1.95	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	0.01	< 0.005	—	341
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.29	8.21	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,438	0.03	0.02	1.89	2,447
Vendor	0.13	0.08	2.83	1.09	0.03	0.03	0.99	0.96	0.03	0.27	0.29	—	2,505	0.04	0.37	1.15	2,619
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.53	0.41	6.26	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,207	0.04	0.02	0.05	2,214
Vendor	0.12	0.07	3.01	1.12	0.03	0.03	0.99	0.96	0.03	0.27	0.29	—	2,509	0.04	0.37	0.03	2,621
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.53	0.34	5.62	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	1,938	0.02	0.02	0.70	1,945
Vendor	0.11	0.06	2.52	0.95	0.02	0.02	0.84	0.82	0.02	0.23	0.25	—	2,149	0.04	0.32	0.43	2,245
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.03	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	321	< 0.005	< 0.005	0.12	322
Vendor	0.02	0.01	0.46	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	356	0.01	0.05	0.07	372
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

3.18. Building Construction (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.46	2.33	< 0.005	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.29	8.21	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	2,438	2,438	0.03	0.02	1.89	2,447					
Vendor	0.13	0.08	2.83	1.09	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	0.29	2,505	2,505	0.04	0.37	1.15	2,619					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.53	0.41	6.26	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	2,207	2,207	0.04	0.02	0.05	2,214					
Vendor	0.12	0.07	3.01	1.12	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	0.29	2,509	2,509	0.04	0.37	0.03	2,621					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.53	0.34	5.62	0.00	0.00	2.29	2.29	2.29	0.00	0.54	0.54	0.54	1,938	1,938	0.02	0.02	0.70	1,945					
Vendor	0.11	0.06	2.52	0.95	0.02	0.02	0.82	0.82	0.84	0.02	0.23	0.25	0.25	2,149	2,149	0.04	0.32	0.43	2,245					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.10	0.06	1.03	0.00	0.00	0.42	0.42	0.42	0.00	0.10	0.10	0.10	321	321	< 0.005	< 0.005	0.12	322					
Vendor	0.02	0.01	0.46	0.17	< 0.005	< 0.005	0.15	0.15	0.15	< 0.005	0.04	0.05	0.05	356	356	0.01	0.05	0.07	372					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

3.19. Building Construction (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 Equipm	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.81	10.6	0.02	0.12	—	0.12	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.06	1.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.53	0.29	7.99	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,421	2,421	0.03	0.02	1.58	2,430
Vendor	0.13	0.08	2.77	1.06	0.03	0.03	0.96	0.96	0.03	0.27	0.29	—	2,453	2,453	0.04	0.37	0.91	2,566
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.52	0.40	6.11	0.00	0.00	2.68	2.68	0.63	0.63	0.00	0.63	0.63	—	2,191	2,191	0.04	0.02	0.04	0.02	0.04	2,198
Vendor	0.12	0.07	2.97	1.10	0.03	0.03	0.96	0.99	0.27	0.29	0.03	0.27	0.29	—	2,456	2,456	0.04	0.37	0.04	0.02	0.02	2,568
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.52	0.44	0.33	5.43	0.00	0.00	2.29	2.29	0.54	0.54	0.00	0.54	0.54	—	1,925	1,925	0.02	0.02	0.02	0.59	1,931	
Vendor	0.11	0.06	2.47	0.92	0.02	0.02	0.82	0.84	0.23	0.25	0.02	0.23	0.25	—	2,103	2,103	0.03	0.32	0.03	0.34	2,200	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.10	0.08	0.06	0.99	0.00	0.00	0.42	0.42	0.10	0.10	0.00	0.10	0.10	—	319	319	< 0.005	< 0.005	< 0.005	0.10	320	
Vendor	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.15	0.15	0.04	0.05	< 0.005	0.04	0.05	—	348	348	0.01	0.05	0.01	0.06	364	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3.20. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.63	0.53	0.29	7.99	0.00	0.00	2.68	2.68	0.63	0.63	—	2,421	2,421	0.03	0.02	1.58	2,430
Vendor	0.13	0.08	2.77	1.06	0.03	0.03	0.96	0.99	0.27	0.29	—	2,453	2,453	0.04	0.37	0.91	2,566
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.52	0.40	6.11	0.00	0.00	2.68	2.68	0.63	0.63	—	2,191	2,191	0.04	0.02	0.04	2,198
Vendor	0.12	0.07	2.97	1.10	0.03	0.03	0.96	0.99	0.27	0.29	—	2,456	2,456	0.04	0.37	0.02	2,568
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.52	0.44	0.33	5.43	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	1,925	1,925	0.02	0.02	0.59	1,931
Vendor	0.11	0.06	2.47	0.92	0.02	0.02	0.82	0.84	0.02	0.23	0.25	—	2,103	2,103	0.03	0.32	0.34	2,200
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.06	0.99	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	319	319	< 0.005	< 0.005	0.10	320
Vendor	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	348	348	0.01	0.05	0.06	364
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Building Construction (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	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.82	0.69	5.76	10.6	0.02	0.12	—	0.12	—	0.11	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.05	1.94	< 0.005	0.02	—	0.02	0.02	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.51	0.29	7.79	0.00	0.00	2.68	2.68	0.63	0.63	—	2,406	2,406	0.02	0.02	1.32	2,414
Vendor	0.13	0.08	2.74	1.06	0.03	0.03	0.96	0.99	0.27	0.29	—	2,405	2,405	0.04	0.37	0.71	2,518
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.49	0.40	5.97	0.00	0.00	2.68	2.68	0.63	0.63	—	2,178	2,178	0.04	0.02	0.03	2,185
Vendor	0.12	0.07	2.92	1.10	0.03	0.03	0.96	0.99	0.27	0.29	—	2,409	2,409	0.04	0.37	0.02	2,521
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.42	0.26	5.33	0.00	0.00	2.30	2.30	0.54	0.54	—	1,918	1,918	0.02	0.02	0.49	1,925
Vendor	0.11	0.07	2.44	0.93	0.02	0.02	0.82	0.85	0.23	0.25	—	2,068	2,068	0.03	0.32	0.26	2,165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.97	0.00	0.00	0.42	0.42	0.10	0.10	—	318	318	< 0.005	< 0.005	0.08	319
Vendor	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.15	0.15	0.04	0.05	—	342	342	0.01	0.05	0.04	358

3.22. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	—	341	341	0.01	< 0.005	—	342	
Onsite truck	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	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.60	0.51	0.29	7.79	0.00	0.00	2.68	2.68	0.00	0.63	0.63	2,406	2,406	0.02	0.02	1.32	2,414
Vendor	0.13	0.08	2.74	1.06	0.03	0.03	0.99	0.96	0.03	0.27	0.29	2,405	2,405	0.04	0.37	0.71	2,518
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.49	0.40	5.97	0.00	0.00	2.68	2.68	0.00	0.63	0.63	2,178	2,178	0.04	0.02	0.03	2,185
Vendor	0.12	0.07	2.92	1.10	0.03	0.03	0.99	0.96	0.03	0.27	0.29	2,409	2,409	0.04	0.37	0.02	2,521
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.42	0.26	5.33	0.00	0.00	2.30	2.30	0.00	0.54	0.54	1,918	1,918	0.02	0.02	0.49	1,925
Vendor	0.11	0.07	2.44	0.93	0.02	0.02	0.85	0.82	0.02	0.23	0.25	2,068	2,068	0.03	0.32	0.26	2,165
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.97	0.00	0.00	0.42	0.42	0.00	0.10	0.10	318	318	< 0.005	< 0.005	0.08	319
Vendor	0.02	0.01	0.45	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	342	342	0.01	0.05	0.04	358
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Building Construction (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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.49	0.29	7.67	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	—	2,394	2,394	0.02	0.02	1.10	2,401	2,401	—	—	—
Vendor	0.13	0.08	2.68	1.06	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	0.29	—	2,363	2,363	0.04	0.37	0.55	2,476	2,476	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.39	5.84	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	—	2,166	2,166	0.03	0.02	0.03	2,173	2,173	—	—	—
Vendor	0.12	0.07	2.88	1.10	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	0.29	—	2,366	2,366	0.04	0.37	0.01	2,479	2,479	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.40	0.26	5.21	0.00	0.00	2.29	2.29	2.29	0.00	0.54	0.54	0.54	—	1,903	1,903	0.02	0.02	0.41	1,909	1,909	—	—	—
Vendor	0.11	0.07	2.39	0.93	0.02	0.02	0.82	0.82	0.84	0.02	0.23	0.25	0.25	—	2,026	2,026	0.03	0.32	0.20	2,123	2,123	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.05	0.95	0.00	0.00	0.42	0.42	0.42	0.00	0.10	0.10	0.10	—	315	315	< 0.005	< 0.005	0.07	316	316	—	—	—
Vendor	0.02	0.01	0.44	0.17	< 0.005	< 0.005	0.15	0.15	0.15	< 0.005	0.04	0.05	0.05	—	335	335	0.01	0.05	0.03	351	351	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—

3.24. Building Construction (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 Equipm	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.49	0.29	7.67	0.00	0.00	2.68	2.68	0.00	0.63	—	2,394	2,394	0.02	0.02	1.10	2,401
Vendor	0.13	0.08	2.68	1.06	0.03	0.03	0.96	0.99	0.03	0.27	—	2,363	2,363	0.04	0.37	0.55	2,476
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.39	5.84	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	—	—	2,166	2,166	0.03	0.02	0.03	0.02	0.03	2,173
Vendor	0.12	0.07	2.88	1.10	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	—	—	—	2,366	2,366	0.04	0.37	0.01	0.37	0.01	2,479
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.40	0.26	5.21	0.00	0.00	2.29	2.29	2.29	0.00	0.54	0.54	0.54	—	—	1,903	1,903	0.02	0.02	0.02	0.02	0.41	1,909
Vendor	0.11	0.07	2.39	0.93	0.02	0.02	0.82	0.82	0.84	0.02	0.23	0.25	—	—	—	2,026	2,026	0.03	0.32	0.03	0.32	0.20	2,123
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.05	0.95	0.00	0.00	0.42	0.42	0.42	0.00	0.10	0.10	0.10	—	—	315	315	< 0.005	< 0.005	0.07	< 0.005	0.07	316
Vendor	0.02	0.01	0.44	0.17	< 0.005	< 0.005	0.15	0.15	0.15	< 0.005	0.04	0.05	0.05	—	—	335	335	0.01	0.05	0.03	0.05	0.03	351
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Building Construction (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	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	—	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.66	10.6	0.02	0.12	—	0.12	—	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.03	1.93	< 0.005	0.02	—	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.29	7.56	0.00	0.00	2.68	2.68	0.63	0.00	—	0.63	—	2,382	2,382	0.02	0.02	0.91	2,390
Vendor	0.13	0.08	2.64	1.04	0.03	0.03	0.96	0.96	0.27	0.03	—	0.27	—	2,325	2,325	0.04	0.35	0.42	2,430
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.31	5.71	0.00	0.00	2.68	2.68	0.63	0.00	—	0.63	—	2,156	2,156	0.03	0.02	0.02	2,163
Vendor	0.12	0.07	2.83	1.08	0.03	0.03	0.96	0.96	0.27	0.03	—	0.27	—	2,328	2,328	0.04	0.35	0.01	2,433
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.46	0.39	0.25	5.10	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	1,894	1,894	0.02	0.02	0.34	1,900
Vendor	0.11	0.07	2.36	0.90	0.02	0.02	0.82	0.84	0.02	0.23	0.25	—	1,994	1,994	0.03	0.30	0.16	2,084
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.93	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	314	314	< 0.005	< 0.005	0.06	315
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	330	330	0.01	0.05	0.03	345
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.29	7.56	0.00	0.00	2.68	2.68	0.63	0.63	—	2,382	2,382	0.02	0.02	0.91	2,390
Vendor	0.13	0.08	2.64	1.04	0.03	0.03	0.96	0.99	0.27	0.29	—	2,325	2,325	0.04	0.35	0.42	2,430
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.31	5.71	0.00	0.00	2.68	2.68	0.63	0.63	—	2,156	2,156	0.03	0.02	0.02	2,163
Vendor	0.12	0.07	2.83	1.08	0.03	0.03	0.96	0.99	0.27	0.29	—	2,328	2,328	0.04	0.35	0.01	2,433
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.39	0.25	5.10	0.00	0.00	2.29	2.29	0.54	0.54	—	1,894	1,894	0.02	0.02	0.34	1,900
Vendor	0.11	0.07	2.36	0.90	0.02	0.02	0.82	0.84	0.23	0.25	—	1,994	1,994	0.03	0.30	0.16	2,084
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.93	0.00	0.00	0.42	0.42	0.10	0.10	—	314	314	< 0.005	< 0.005	0.06	315
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.15	0.15	0.04	0.05	—	330	330	0.01	0.05	0.03	345

3.27. Building Construction (2043) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/yr for annual, 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	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.67	5.61	10.5	0.02	0.11	—	0.11	0.10	—	0.10	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.45	0.28	7.45	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,373	2,373	0.02	0.02	0.75	2,380
Vendor	0.13	0.08	2.61	1.04	0.03	0.03	0.99	0.96	0.03	0.27	0.29	—	2,292	2,292	0.04	0.35	0.32	2,397
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.45	0.31	5.68	0.00	0.00	2.68	2.68	0.00	0.63	0.63	—	2,148	2,148	0.03	0.02	0.02	2,155
Vendor	0.12	0.07	2.79	1.08	0.03	0.03	0.99	0.96	0.03	0.27	0.29	—	2,295	2,295	0.04	0.35	0.01	2,400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.37	0.25	5.08	0.00	0.00	2.29	2.29	0.00	0.54	0.54	—	1,886	1,886	0.02	0.02	0.28	1,893
Vendor	0.11	0.07	2.33	0.91	0.02	0.02	0.84	0.82	0.02	0.23	0.25	—	1,966	1,966	0.03	0.30	0.12	2,056
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.93	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	312	312	< 0.005	< 0.005	0.05	313
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	325	325	0.01	0.05	0.02	340
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.28. Building Construction (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.45	0.28	7.45	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	0.63	—	2,373	2,373	0.02	0.02	0.02	0.75	2,380			
Vendor	0.13	0.08	2.61	1.04	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	—	2,292	2,292	0.04	0.35	0.32	2,397					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.54	0.45	0.31	5.68	0.00	0.00	2.68	2.68	2.68	0.00	0.63	0.63	—	2,148	2,148	0.03	0.02	0.02	0.02	2,155				
Vendor	0.12	0.07	2.79	1.08	0.03	0.03	0.96	0.96	0.99	0.03	0.27	0.29	—	2,295	2,295	0.04	0.35	0.01	2,400					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.46	0.37	0.25	5.08	0.00	0.00	2.29	2.29	2.29	0.00	0.54	0.54	—	1,886	1,886	0.02	0.02	0.28	1,893					
Vendor	0.11	0.07	2.33	0.91	0.02	0.02	0.82	0.82	0.84	0.02	0.23	0.25	—	1,966	1,966	0.03	0.30	0.12	2,056					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.08	0.07	0.05	0.93	0.00	0.00	0.42	0.42	0.42	0.00	0.10	0.10	—	312	312	< 0.005	< 0.005	0.05	313					
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.15	0.15	0.15	< 0.005	0.04	0.05	—	325	325	0.01	0.05	0.02	340					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.29. Building Construction (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 Equipm	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	5.57	10.5	0.02	0.11	—	0.11	—	0.10	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	—	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.44	0.28	7.35	0.00	0.00	2.68	2.68	—	0.00	0.63	2,365	2,365	0.02	0.01	0.61	2,370
Vendor	0.10	0.08	2.58	1.04	0.03	0.03	0.96	0.99	—	0.03	0.27	2,263	2,263	0.04	0.35	0.24	2,368
Hauling	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.43	0.30	5.57	0.00	0.00	2.68	2.68	2.68	0.63	0.63	0.63	—	—	2,140	2,140	0.03	0.02	0.02	0.02	0.02	2,147	2,147
Vendor	0.09	0.07	2.76	1.08	0.03	0.03	0.96	0.96	0.99	0.27	0.29	0.29	—	—	2,267	2,267	0.04	0.35	0.01	0.01	0.01	2,371	2,371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.37	0.25	5.00	0.00	0.00	2.30	2.30	2.30	0.54	0.54	0.54	—	—	1,885	1,885	0.02	0.02	0.02	0.02	0.23	1,892	1,892
Vendor	0.08	0.06	2.31	0.91	0.02	0.02	0.82	0.82	0.85	0.23	0.25	0.25	—	—	1,946	1,946	0.03	0.30	0.09	0.30	0.09	2,037	2,037
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.42	0.42	0.42	0.10	0.10	0.10	—	—	312	312	< 0.005	< 0.005	0.04	< 0.005	0.04	313	313
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.15	0.15	0.15	0.04	0.05	0.05	—	—	322	322	0.01	0.05	0.02	0.05	0.02	337	337
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.30. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	—	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.44	0.28	7.35	0.00	0.00	2.68	2.68	0.63	0.63	—	2,365	2,365	0.02	0.01	0.61	2,370
Vendor	0.10	0.08	2.58	1.04	0.03	0.03	0.96	0.99	0.29	0.27	—	2,263	2,263	0.04	0.35	0.24	2,368
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.43	0.30	5.57	0.00	0.00	2.68	2.68	0.63	0.63	—	2,140	2,140	0.03	0.02	0.02	2,147
Vendor	0.09	0.07	2.76	1.08	0.03	0.03	0.96	0.99	0.29	0.27	—	2,267	2,267	0.04	0.35	0.01	2,371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.45	0.37	0.25	5.00	0.00	0.00	2.30	2.30	0.00	0.54	0.54	—	1,885	1,885	0.02	0.02	0.23	1,892
Vendor	0.08	0.06	2.31	0.91	0.02	0.02	0.82	0.85	0.02	0.23	0.25	—	1,946	1,946	0.03	0.30	0.09	2,037
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.91	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	312	312	< 0.005	< 0.005	0.04	313
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.05	—	322	322	0.01	0.05	0.02	337
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.24	2.34	< 0.005	0.02	—	0.02	0.02	—	0.02	—	462	462	0.02	< 0.005	—	463
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.03	0.03	0.23	0.43	< 0.005	< 0.005	< 0.005	—	< 0.005	—	76.4	76.4	< 0.005	< 0.005	—	76.7
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.30	5.54	0.00	0.00	2.68	2.68	0.00	0.63	2,134	2,134	0.03	0.02	0.01	2,141
Vendor	0.09	0.07	2.76	1.08	0.03	0.03	0.96	0.96	0.03	0.27	2,242	2,242	0.04	0.35	< 0.005	2,347
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.06	1.12	0.00	0.00	0.51	0.51	0.00	0.12	421	421	< 0.005	< 0.005	0.04	423
Vendor	0.02	0.01	0.51	0.20	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	431	431	0.01	0.07	0.02	451
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.09	0.09	0.00	0.02	69.7	69.7	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.09	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	71.4	71.4	< 0.005	0.01	< 0.005	74.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.32. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	0.07	—	0.07	0.07	—	—	—	0.07	—	2,397	2,397	0.10	0.02	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.56	2.87	< 0.005	0.01	0.01	—	0.01	0.01	—	—	—	0.01	—	462	462	0.02	< 0.005	—	—	—	463
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.52	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	< 0.005	—	76.4	76.4	< 0.005	< 0.005	—	—	—	76.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.30	5.54	0.00	2.68	2.68	0.63	0.00	0.63	—	—	—	0.63	—	2,134	2,134	0.03	0.02	0.01	—	—	2,141
Vendor	0.09	0.07	2.76	1.08	0.03	0.96	0.96	0.27	0.03	0.27	—	—	—	0.29	—	2,242	2,242	0.04	0.35	< 0.005	—	—	2,347
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.10	0.08	0.06	1.12	0.00	0.00	0.00	0.51	0.51	0.00	0.12	0.12	—	421	421	< 0.005	< 0.005	0.04	423
Vendor	0.02	0.01	0.51	0.20	< 0.005	< 0.005	0.18	0.19	0.06	< 0.005	0.05	0.06	—	431	431	0.01	0.07	0.02	451
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.09	0.09	0.02	0.00	0.02	0.02	—	69.7	69.7	< 0.005	< 0.005	0.01	70.0
Vendor	< 0.005	< 0.005	0.09	0.04	< 0.005	< 0.005	0.03	0.03	0.01	< 0.005	0.01	0.01	—	71.4	71.4	< 0.005	0.01	< 0.005	74.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.33. Paving (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	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.30	3.37	6.45	0.01	0.05	0.05	0.05	0.05	—	0.05	0.05	0.05	0.05	0.05	1,004	1,004	0.04	0.01	—	—	—	—	—	1,007
Paving	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.61	1.18	< 0.005	0.01	0.01	0.01	0.01	—	0.01	0.01	0.01	0.01	0.01	166	166	0.01	< 0.005	—	—	—	—	—	167
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.13	0.13	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	111	111	< 0.005	< 0.005	0.02	0.02	0.02	0.02	0.02	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.13	0.13	0.00	0.00	0.03	0.03	0.03	0.03	0.03	0.03	100	100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	101
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.18	0.00	0.08	0.08	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	68.3	68.3	< 0.005	< 0.005	0.01	0.01	0.01	0.01	0.01	68.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	11.3	11.3	< 0.005	< 0.005	< 0.005	11.3	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.34. Paving (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	0.27	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.18	0.16	1.39	6.95	0.01	0.03	0.03	—	0.03	0.03	—	0.03	—	1,004	1,004	0.04	0.01	—	1,007
Paving	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.25	1.27	< 0.005	—	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	166	166	0.01	< 0.005	—	167
Paving	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.13	0.13	0.03	0.00	0.03	0.03	0.03	—	111	111	< 0.005	< 0.005	0.02	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.13	0.13	0.03	0.00	0.03	0.03	0.03	—	100	100	< 0.005	< 0.005	< 0.005	101
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.18	0.00	0.08	0.08	0.02	0.00	0.02	0.02	0.02	—	68.3	68.3	< 0.005	< 0.005	0.01	68.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.35. Paving (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.45	5.02	9.71	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.38	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	—	114	114	< 0.005	< 0.005	—	114
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.07	0.13	< 0.005	< 0.005	< 0.005	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	18.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.03	0.03	—	100	100	< 0.005	< 0.005	< 0.005	100
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	< 0.005	< 0.005	—	7.70	7.70	< 0.005	< 0.005	< 0.005	7.73
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.28
Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Paving (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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.25	2.08	10.5	0.01	0.04	0.04	0.04	0.04	—	—	0.04	—	1,511	1,511	0.06	0.01	—	—	—	—	—	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.79	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	< 0.005	—	114	114	< 0.005	< 0.005	—	—	—	—	—	—	114
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	< 0.005	—	18.8	18.8	< 0.005	< 0.005	—	—	—	—	—	—	18.9
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	100	100	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	100	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	7.70	7.70	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.73		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.28		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

3.37. 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	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	134	134	0.01	< 0.005	—	134	134	0.00
Architectural Coatings	14.5	14.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.55	0.81	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	98.8	98.8	< 0.005	< 0.005	—	98.1	99.1	99.1
Architectural Coatings	10.7	10.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.4	16.4	< 0.005	< 0.005	—	16.4	16.4	16.4
Architectural Coatings	1.95	1.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.06	1.45	0.00	0.00	0.00	0.54	0.54	0.00	0.13	0.13	—	470	470	< 0.005	< 0.005	0.08	471		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.08	0.08	0.06	1.11	0.00	0.00	0.00	0.54	0.54	0.00	0.13	0.13	—	426	426	0.01	< 0.005	< 0.005	< 0.005	427	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.07	0.06	0.04	0.86	0.00	0.00	0.00	0.40	0.40	0.00	0.09	0.09	—	323	323	< 0.005	< 0.005	0.03	324		
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	53.4	53.4	< 0.005	< 0.005	< 0.005	< 0.005	53.6	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

3.38. Architectural Coating (2046) - Mitigated

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

[illegible]

Off-Road	0.11	0.09	0.74	1.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	8.13	8.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	8.13	8.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.55	0.81	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	98.8	98.8	< 0.005	< 0.005	—	99.1
Architectural Coatings	6.01	6.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.4	16.4	< 0.005	< 0.005	—	16.4

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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)

[illegible]

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)

[illegible]

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)

[illegible]

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	1/1/2032	6/20/2032	6.00	147	—
Grading	Grading	6/21/2032	8/23/2033	6.00	368	—
Building Construction	Building Construction	8/24/2033	3/23/2045	6.00	3,626	—
Paving	Paving	3/24/2045	2/1/2046	6.00	270	—
Architectural Coating	Architectural Coating	2/2/2046	12/13/2046	6.00	270	—

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	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29

Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	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	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	319	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	126	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2

Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	63.9	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	319	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	126	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2

Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	63.9	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,153,860	384,620	73,487

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	221	0.00	—
Grading	—	—	1,104	0.00	—
Paving	0.00	0.00	0.00	0.00	28.1

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
Industrial Park	0.00	0%
Parking Lot	11.7	100%
Other Asphalt Surfaces	13.4	100%
Other Non-Asphalt Surfaces	3.00	0%
City Park	0.00	0%
Hotel	0.00	0%
Gasoline/Service Station	0.00	0%
Convenience Market (24 hour)	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Bank (with Drive-Through)	0.00	0%
Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	0.00	204	0.03	< 0.005
2033	0.00	204	0.03	< 0.005
2034	0.00	204	0.03	< 0.005
2035	0.00	204	0.03	< 0.005
2036	0.00	204	0.03	< 0.005
2037	0.00	204	0.03	< 0.005
2038	0.00	204	0.03	< 0.005
2039	0.00	204	0.03	< 0.005

2040	0.00	204	0.03	< 0.005
2041	0.00	204	0.03	< 0.005
2042	0.00	204	0.03	< 0.005
2043	0.00	204	0.03	< 0.005
2044	0.00	204	0.03	< 0.005
2045	0.00	204	0.03	< 0.005
2046	0.00	204	0.03	< 0.005

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A

Extreme Precipitation	N/A	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A	N/A
Flooding	0	0	0	0	N/A
Drought	0	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A	N/A
Air Quality Degradation	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3

Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528

Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0

Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Healthy 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
Land Use	Land uses are based on Project-specific information.
Construction: Construction Phases	Project-specific schedule.

Pacific Gateway (University Center Development Area Construction) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (University Center Development Area Construction)
Construction Start Date	1/1/2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Office Park	93.0	1000sqft	2.70	93,000	25,225	—	—	—
Strip Mall	38.9	1000sqft	1.80	38,900	39,795	—	—	—

Parking Lot	334	1000sqft	7.70	0.00	0.00	—	—	—
University/College (4yr)	4,600	Student	35.9	1,354,200	1,126,852	1,126,852	—	—
Apartments Mid Rise	1,600	Dwelling Unit	4.80	1,536,000	0.00	—	5,168	—
Other Asphalt Surfaces	335	1000sqft	7.70	0.00	0.00	—	—	—
Unenclosed Parking with Elevator	874	Space	1.60	349,600	0.00	—	—	—
Other Non-Asphalt Surfaces	454	1000sqft	10.4	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	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.	56.5	56.4	22.3	73.6	0.12	0.93	19.8	20.7	0.85	10.1	11.0	—	28,048	28,048	0.42	1.73	31.5	28,606
Mit.	56.5	56.4	17.0	75.8	0.12	0.17	19.8	19.9	0.17	10.1	10.2	—	28,048	28,048	0.42	1.73	31.5	28,606
% Reduced	—	—	24%	-3%	—	81%	—	4%	80%	—	7%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	56.4	56.4	23.1	61.0	0.12	0.93	19.8	20.7	0.85	10.1	11.0	—	26,615	26,615	0.51	1.73	0.82	27,145
Mit.	56.4	56.4	18.5	63.1	0.12	0.17	19.8	19.9	0.17	10.1	10.2	—	26,615	26,615	0.51	1.73	0.82	27,145
% Reduced	—	—	20%	-4%	—	81%	—	4%	80%	—	7%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	45.4	45.4	18.9	52.8	0.10	0.72	16.8	17.0	0.66	5.56	6.21	—	22,814	22,814	0.40	1.46	11.5	23,271
Mit.	45.4	45.4	14.8	54.8	0.10	0.15	16.8	17.0	0.15	5.56	5.65	—	22,814	22,814	0.40	1.46	11.5	23,271
% Reduced	—	—	21%	-4%	—	79%	—	< 0.5%	78%	—	9%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.29	8.28	3.44	9.64	0.02	0.13	3.07	3.11	0.12	1.01	1.13	—	3,777	3,777	0.07	0.24	1.90	3,853
Mit.	8.29	8.28	2.71	9.99	0.02	0.03	3.07	3.10	0.03	1.01	1.03	—	3,777	3,777	0.07	0.24	1.90	3,853
% Reduced	—	—	21%	-4%	—	79%	—	< 0.5%	78%	—	9%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.26	2.75	22.3	26.4	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	6,760	6,760	0.27	0.05	0.30	6,783
2033	3.02	2.55	18.6	25.8	0.06	0.73	9.37	10.1	0.68	3.69	4.37	—	6,758	6,758	0.27	0.05	0.26	6,781
2034	6.05	5.62	21.5	73.6	0.12	0.29	19.6	19.9	0.27	4.76	5.03	—	28,048	28,048	0.42	1.73	31.5	28,606
2035	5.95	5.57	21.0	71.0	0.12	0.27	19.6	19.9	0.26	4.76	5.02	—	27,568	27,568	0.42	1.64	26.8	28,094
2036	5.80	5.37	20.5	68.5	0.12	0.26	19.6	19.9	0.25	4.76	5.01	—	27,137	27,137	0.42	1.64	22.5	27,658
2037	5.57	5.15	19.6	66.9	0.12	0.25	19.6	19.9	0.24	4.76	5.00	—	26,756	26,756	0.42	1.64	18.8	27,274
2038	5.44	5.02	19.3	65.6	0.12	0.25	19.6	19.9	0.23	4.76	4.99	—	26,359	26,359	0.42	1.54	15.6	26,845

2039	5.22	4.30	18.9	64.2	0.12	0.24	19.6	19.9	0.23	4.76	4.98	—	26,059	26,059	0.41	1.54	12.9	26,542
2040	5.00	4.13	18.7	62.9	0.12	0.24	19.6	19.9	0.22	4.76	4.98	—	25,793	25,793	0.37	1.54	10.5	26,273
2041	4.91	4.05	18.4	62.2	0.12	0.23	19.6	19.9	0.22	4.76	4.98	—	25,558	25,558	0.37	1.54	8.62	26,036
2042	4.78	3.87	18.2	61.5	0.12	0.23	19.6	19.9	0.22	4.76	4.97	—	25,350	25,350	0.37	1.45	7.01	25,798
2043	4.65	3.77	18.0	60.7	0.12	0.22	19.6	19.9	0.21	4.76	4.97	—	25,169	25,169	0.37	1.45	5.67	25,616
2044	4.49	3.68	17.8	60.1	0.12	0.22	19.6	19.9	0.21	4.76	4.96	—	25,014	25,014	0.37	1.41	4.58	25,447
2045	4.40	3.63	17.6	60.0	0.12	0.21	19.6	19.9	0.20	4.76	4.96	—	24,879	24,879	0.37	1.41	3.69	25,312
2046	4.35	3.59	17.6	59.4	0.12	0.21	19.6	19.9	0.20	4.76	4.96	—	24,764	24,764	0.37	1.41	2.96	25,195
2047	0.70	0.61	5.02	10.0	0.01	0.07	0.13	0.20	0.07	0.03	0.09	—	1,621	1,621	0.06	0.01	0.02	1,626
2048	56.5	56.4	1.07	9.74	< 0.005	< 0.005	3.21	3.21	< 0.005	0.75	0.76	—	2,937	2,937	0.03	0.02	0.34	2,944
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	3.26	2.75	22.3	26.3	0.06	0.93	19.8	20.7	0.85	10.1	11.0	—	6,744	6,744	0.27	0.11	0.03	6,767
2033	3.02	2.55	18.6	25.7	0.06	0.73	9.37	10.1	0.68	3.69	4.37	—	6,742	6,742	0.27	0.05	0.01	6,765
2034	5.80	5.38	23.1	61.0	0.12	0.68	19.6	19.9	0.62	4.76	5.03	—	26,615	26,615	0.51	1.73	0.82	27,145
2035	5.70	5.28	22.4	59.1	0.12	0.27	19.6	19.9	0.26	4.76	5.02	—	26,152	26,152	0.51	1.64	0.69	26,654
2036	5.60	5.18	21.4	57.3	0.12	0.26	19.6	19.9	0.25	4.76	5.01	—	25,736	25,736	0.46	1.64	0.58	26,237
2037	5.41	5.00	20.9	55.6	0.12	0.25	19.6	19.9	0.24	4.76	5.00	—	25,368	25,368	0.46	1.64	0.49	25,869
2038	5.19	4.28	20.6	54.1	0.12	0.25	19.6	19.9	0.23	4.76	4.99	—	24,986	24,986	0.45	1.54	0.40	25,458
2039	5.10	4.19	20.3	53.1	0.12	0.24	19.6	19.9	0.23	4.76	4.98	—	24,696	24,696	0.45	1.54	0.33	25,168
2040	4.88	3.98	20.0	52.2	0.12	0.24	19.6	19.9	0.22	4.76	4.98	—	24,439	24,439	0.45	1.54	0.27	24,911
2041	4.75	3.85	19.8	51.4	0.12	0.23	19.6	19.9	0.22	4.76	4.98	—	24,211	24,211	0.41	1.54	0.22	24,682
2042	4.71	3.80	19.0	50.5	0.12	0.23	19.6	19.9	0.22	4.76	4.97	—	24,010	24,010	0.41	1.45	0.18	24,452
2043	4.62	3.75	18.8	50.3	0.12	0.22	19.6	19.9	0.21	4.76	4.97	—	23,834	23,834	0.41	1.45	0.15	24,277
2044	4.39	3.62	18.6	49.5	0.12	0.22	19.6	19.9	0.21	4.76	4.96	—	23,684	23,684	0.41	1.45	0.12	24,126
2045	3.84	3.56	18.5	49.3	0.12	0.21	19.6	19.9	0.20	4.76	4.96	—	23,553	23,553	0.41	1.45	0.10	23,996
2046	3.79	3.48	18.4	49.2	0.12	0.21	19.6	19.9	0.20	4.76	4.96	—	23,441	23,441	0.41	1.45	0.08	23,883
2047	56.4	56.4	18.2	49.0	0.12	0.21	19.6	19.9	0.20	4.76	4.96	—	23,345	23,345	0.41	1.45	0.06	23,788

2048	56.4	56.4	1.10	7.68	< 0.005	< 0.005	3.21	3.21	3.21	< 0.005	0.75	0.76	—	2,671	2,671	0.04	0.03	0.01	2,680
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	2.62	2.21	17.6	21.2	0.04	0.72	11.5	12.2	12.2	0.66	5.56	6.21	—	4,792	4,792	0.19	0.05	0.15	4,812
2033	2.59	2.18	15.9	22.1	0.05	0.63	8.03	8.66	8.66	0.58	3.17	3.74	—	5,782	5,782	0.23	0.05	0.10	5,802
2034	4.88	4.51	18.9	52.8	0.10	0.25	16.6	16.9	16.9	0.24	4.04	4.28	—	22,814	22,814	0.40	1.46	11.5	23,271
2035	4.90	4.50	18.5	51.8	0.10	0.24	16.8	17.0	17.0	0.22	4.06	4.28	—	22,699	22,699	0.40	1.40	9.89	23,138
2036	4.83	4.46	18.0	50.1	0.10	0.23	16.8	17.0	17.0	0.21	4.07	4.28	—	22,401	22,401	0.40	1.41	8.36	22,839
2037	4.62	4.26	17.6	48.6	0.10	0.22	16.8	17.0	17.0	0.21	4.06	4.26	—	22,021	22,021	0.40	1.40	6.96	22,457
2038	4.47	4.11	17.4	47.8	0.10	0.21	16.8	17.0	17.0	0.20	4.06	4.26	—	21,691	21,691	0.36	1.32	5.79	22,100
2039	4.35	3.57	17.0	46.6	0.10	0.21	16.8	17.0	17.0	0.20	4.06	4.25	—	21,440	21,440	0.35	1.32	4.77	21,848
2040	4.22	3.47	16.5	46.0	0.10	0.20	16.8	17.0	17.0	0.19	4.07	4.26	—	21,276	21,276	0.35	1.33	3.92	21,685
2041	4.06	3.31	16.2	45.2	0.10	0.20	16.8	17.0	17.0	0.19	4.06	4.25	—	21,022	21,022	0.35	1.32	3.19	21,428
2042	3.98	3.24	16.0	44.5	0.10	0.20	16.8	17.0	17.0	0.19	4.06	4.25	—	20,848	20,848	0.35	1.24	2.59	21,229
2043	3.94	3.16	15.9	44.3	0.10	0.19	16.8	17.0	17.0	0.18	4.06	4.24	—	20,696	20,696	0.35	1.24	2.10	21,077
2044	3.79	3.12	15.7	43.8	0.10	0.19	16.8	17.0	17.0	0.18	4.07	4.25	—	20,623	20,623	0.35	1.25	1.70	21,004
2045	3.73	3.03	15.5	43.6	0.10	0.18	16.8	17.0	17.0	0.18	4.06	4.23	—	20,454	20,454	0.32	1.24	1.36	20,833
2046	3.61	2.96	15.5	43.5	0.10	0.18	16.8	17.0	17.0	0.17	4.06	4.23	—	20,357	20,357	0.32	1.24	1.10	20,736
2047	1.79	1.72	4.30	8.77	0.01	0.06	0.31	0.37	0.37	0.06	0.07	0.13	—	1,559	1,559	0.05	0.02	0.02	1,567
2048	45.4	45.4	0.87	6.36	< 0.005	< 0.005	2.57	2.58	2.58	< 0.005	0.60	0.61	—	2,202	2,202	0.02	0.02	0.12	2,209
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.48	0.40	3.21	3.87	0.01	0.13	2.10	2.23	2.23	0.12	1.01	1.13	—	793	793	0.03	0.01	0.03	797
2033	0.47	0.40	2.90	4.02	0.01	0.11	1.47	1.58	1.58	0.11	0.58	0.68	—	957	957	0.04	0.01	0.02	961
2034	0.89	0.82	3.44	9.64	0.02	0.05	3.03	3.08	3.08	0.04	0.74	0.78	—	3,777	3,777	0.07	0.24	1.90	3,853
2035	0.89	0.82	3.37	9.46	0.02	0.04	3.06	3.10	3.10	0.04	0.74	0.78	—	3,758	3,758	0.07	0.23	1.64	3,831
2036	0.88	0.81	3.29	9.15	0.02	0.04	3.07	3.11	3.11	0.04	0.74	0.78	—	3,709	3,709	0.07	0.23	1.38	3,781
2037	0.84	0.78	3.22	8.87	0.02	0.04	3.06	3.10	3.10	0.04	0.74	0.78	—	3,646	3,646	0.07	0.23	1.15	3,718
2038	0.82	0.75	3.17	8.73	0.02	0.04	3.06	3.10	3.10	0.04	0.74	0.78	—	3,591	3,591	0.06	0.22	0.96	3,659
2039	0.79	0.65	3.11	8.50	0.02	0.04	3.06	3.10	3.10	0.04	0.74	0.78	—	3,550	3,550	0.06	0.22	0.79	3,617

2040	0.77	0.63	3.00	8.39	0.02	0.04	3.07	3.11	0.04	0.74	0.78	—	3,523	3,523	0.06	0.22	0.65	3,590
2041	0.74	0.60	2.95	8.25	0.02	0.04	3.06	3.10	0.03	0.74	0.78	—	3,480	3,480	0.06	0.22	0.53	3,548
2042	0.73	0.59	2.92	8.12	0.02	0.04	3.06	3.10	0.03	0.74	0.77	—	3,452	3,452	0.06	0.21	0.43	3,515
2043	0.72	0.58	2.89	8.08	0.02	0.04	3.06	3.10	0.03	0.74	0.77	—	3,426	3,426	0.06	0.21	0.35	3,490
2044	0.69	0.57	2.87	8.00	0.02	0.03	3.07	3.10	0.03	0.74	0.78	—	3,414	3,414	0.06	0.21	0.28	3,478
2045	0.68	0.55	2.83	7.96	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,386	3,386	0.05	0.21	0.23	3,449
2046	0.66	0.54	2.82	7.94	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,370	3,370	0.05	0.21	0.18	3,433
2047	0.33	0.31	0.78	1.60	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	—	258	258	0.01	< 0.005	< 0.005	259
2048	8.29	8.28	0.16	1.16	< 0.005	< 0.005	0.47	0.47	< 0.005	0.11	0.11	—	365	365	< 0.005	< 0.005	0.02	366

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
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.82	0.79	4.71	36.0	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	6,760	6,760	0.27	0.05	0.30	6,783
2033	0.81	0.78	4.70	36.0	0.06	0.14	9.37	9.51	0.14	3.69	3.83	—	6,758	6,758	0.27	0.05	0.26	6,781
2034	5.49	5.18	17.0	75.8	0.12	0.17	19.6	19.8	0.17	4.76	4.93	—	28,048	28,048	0.42	1.73	31.5	28,606
2035	5.40	5.14	16.6	73.2	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	27,568	27,568	0.42	1.64	26.8	28,094
2036	5.27	4.96	16.3	70.8	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	27,137	27,137	0.42	1.64	22.5	27,658
2037	5.05	4.75	15.6	69.4	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	26,756	26,756	0.42	1.64	18.8	27,274
2038	4.93	4.62	15.3	68.1	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	26,359	26,359	0.42	1.54	15.6	26,845
2039	4.72	3.91	15.1	66.7	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	26,059	26,059	0.41	1.54	12.9	26,542
2040	4.51	3.75	14.9	65.5	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,793	25,793	0.37	1.54	10.5	26,273
2041	4.42	3.67	14.7	64.8	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,558	25,558	0.37	1.54	8.62	26,036
2042	4.30	3.50	14.5	64.0	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,350	25,350	0.37	1.45	7.01	25,798
2043	4.17	3.40	14.4	63.4	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,169	25,169	0.37	1.45	5.67	25,616
2044	4.02	3.32	14.3	62.8	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,014	25,014	0.37	1.41	4.58	25,447

2045	3.94	3.28	14.1	62.7	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,879	24,879	0.37	1.41	3.69	25,312
2046	3.90	3.23	14.1	62.2	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,764	24,764	0.37	1.41	2.96	25,195
2047	0.44	0.41	2.09	10.8	0.01	0.04	0.13	0.16	0.04	0.03	0.07	—	1,621	1,621	0.06	0.01	0.02	1,626
2048	56.5	56.4	1.07	9.74	< 0.005	< 0.005	3.21	3.21	< 0.005	0.75	0.76	—	2,937	2,937	0.03	0.02	0.34	2,944
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.81	0.78	5.75	35.9	0.06	0.14	19.8	19.9	0.14	10.1	10.2	—	6,744	6,744	0.27	0.11	0.03	6,767
2033	0.80	0.78	4.71	35.8	0.06	0.14	9.37	9.51	0.14	3.69	3.83	—	6,742	6,742	0.27	0.05	0.01	6,765
2034	5.24	4.94	18.5	63.1	0.12	0.17	19.6	19.8	0.17	4.76	4.93	—	26,615	26,615	0.51	1.73	0.82	27,145
2035	5.15	4.85	18.0	61.3	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	26,152	26,152	0.51	1.64	0.69	26,654
2036	5.07	4.77	17.2	59.6	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,736	25,736	0.46	1.64	0.58	26,237
2037	4.90	4.60	16.9	58.0	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	25,368	25,368	0.46	1.64	0.49	25,869
2038	4.69	3.89	16.6	56.5	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,986	24,986	0.45	1.54	0.40	25,458
2039	4.60	3.80	16.5	55.6	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,696	24,696	0.45	1.54	0.33	25,168
2040	4.39	3.59	16.2	54.7	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,439	24,439	0.45	1.54	0.27	24,911
2041	4.26	3.47	16.1	53.9	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,211	24,211	0.41	1.54	0.22	24,682
2042	4.22	3.42	15.4	53.1	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	24,010	24,010	0.41	1.45	0.18	24,452
2043	4.14	3.38	15.2	52.9	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	23,834	23,834	0.41	1.45	0.15	24,277
2044	3.92	3.26	15.1	52.2	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	23,684	23,684	0.41	1.45	0.12	24,126
2045	3.37	3.20	15.0	52.1	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	23,553	23,553	0.41	1.45	0.10	23,996
2046	3.33	3.13	14.9	52.0	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	23,441	23,441	0.41	1.45	0.08	23,883
2047	56.4	56.4	14.8	51.9	0.12	0.17	19.6	19.8	0.17	4.76	4.92	—	23,345	23,345	0.41	1.45	0.06	23,788
2048	56.4	56.4	1.10	7.68	< 0.005	< 0.005	3.21	3.21	< 0.005	0.75	0.76	—	2,671	2,671	0.04	0.03	0.01	2,680
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.56	0.54	3.25	25.0	0.04	0.10	11.5	11.6	0.10	5.56	5.65	—	4,792	4,792	0.19	0.05	0.15	4,812
2033	0.69	0.67	4.03	30.7	0.05	0.12	8.03	8.15	0.12	3.17	3.28	—	5,782	5,782	0.23	0.05	0.10	5,802
2034	4.37	4.11	14.8	54.8	0.10	0.15	16.6	16.8	0.15	4.04	4.19	—	22,814	22,814	0.40	1.46	11.5	23,271

2035	4.43	4.13	14.7	53.7	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	22,699	22,699	0.40	1.40	9.89	23,138
2036	4.37	4.11	14.5	52.1	0.10	0.15	16.8	17.0	0.14	4.07	4.21	—	22,401	22,401	0.40	1.41	8.36	22,839
2037	4.18	3.91	14.2	50.7	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	22,021	22,021	0.40	1.40	6.96	22,457
2038	4.03	3.77	14.0	49.9	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	21,691	21,691	0.36	1.32	5.79	22,100
2039	3.93	3.23	13.7	48.7	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	21,440	21,440	0.35	1.32	4.77	21,848
2040	3.79	3.14	13.2	48.1	0.10	0.15	16.8	17.0	0.14	4.07	4.21	—	21,276	21,276	0.35	1.33	3.92	21,685
2041	3.64	2.99	13.0	47.4	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	21,022	21,022	0.35	1.32	3.19	21,428
2042	3.56	2.92	12.9	46.7	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	20,848	20,848	0.35	1.24	2.59	21,229
2043	3.53	2.84	12.8	46.6	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	20,696	20,696	0.35	1.24	2.10	21,077
2044	3.38	2.81	12.7	46.1	0.10	0.15	16.8	17.0	0.14	4.07	4.21	—	20,623	20,623	0.35	1.25	1.70	21,004
2045	3.34	2.73	12.5	46.0	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	20,454	20,454	0.32	1.24	1.36	20,833
2046	3.22	2.66	12.5	45.9	0.10	0.15	16.8	16.9	0.14	4.06	4.20	—	20,357	20,357	0.32	1.24	1.10	20,736
2047	1.57	1.55	1.85	9.41	0.01	0.03	0.31	0.34	0.03	0.07	0.11	—	1,559	1,559	0.05	0.02	0.02	1,567
2048	45.4	45.4	0.87	6.36	< 0.005	< 0.005	2.57	2.58	< 0.005	0.60	0.61	—	2,202	2,202	0.02	0.02	0.12	2,209
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2032	0.10	0.10	0.59	4.57	0.01	0.02	2.10	2.12	0.02	1.01	1.03	—	793	793	0.03	0.01	0.03	797
2033	0.13	0.12	0.74	5.61	0.01	0.02	1.47	1.49	0.02	0.58	0.60	—	957	957	0.04	0.01	0.02	961
2034	0.80	0.75	2.71	9.99	0.02	0.03	3.03	3.06	0.03	0.74	0.76	—	3,777	3,777	0.07	0.24	1.90	3,853
2035	0.81	0.75	2.69	9.81	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,758	3,758	0.07	0.23	1.64	3,831
2036	0.80	0.75	2.64	9.51	0.02	0.03	3.07	3.10	0.03	0.74	0.77	—	3,709	3,709	0.07	0.23	1.38	3,781
2037	0.76	0.71	2.59	9.25	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,646	3,646	0.07	0.23	1.15	3,718
2038	0.74	0.69	2.55	9.11	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,591	3,591	0.06	0.22	0.96	3,659
2039	0.72	0.59	2.51	8.89	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,550	3,550	0.06	0.22	0.79	3,617
2040	0.69	0.57	2.41	8.79	0.02	0.03	3.07	3.10	0.03	0.74	0.77	—	3,523	3,523	0.06	0.22	0.65	3,590
2041	0.66	0.55	2.37	8.65	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,480	3,480	0.06	0.22	0.53	3,548
2042	0.65	0.53	2.35	8.52	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,452	3,452	0.06	0.21	0.43	3,515
2043	0.64	0.52	2.33	8.50	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,426	3,426	0.06	0.21	0.35	3,490
2044	0.62	0.51	2.31	8.42	0.02	0.03	3.07	3.10	0.03	0.74	0.77	—	3,414	3,414	0.06	0.21	0.28	3,478

2045	0.61	0.50	2.28	8.39	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,386	3,386	0.05	0.21	0.23	3,449
2046	0.59	0.48	2.28	8.37	0.02	0.03	3.06	3.09	0.03	0.74	0.77	—	3,370	3,370	0.05	0.21	0.18	3,433
2047	0.29	0.28	0.34	1.72	< 0.005	0.01	0.06	0.06	0.01	0.01	0.02	—	258	258	0.01	< 0.005	< 0.005	259
2048	8.29	8.28	0.16	1.16	< 0.005	< 0.005	0.47	0.47	< 0.005	0.11	0.11	—	365	365	< 0.005	< 0.005	0.02	366

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.28	1.92	16.2	16.9	0.03	0.62	—	0.62	0.57	—	0.57	—	3,426	3,426	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.29	2.45	2.54	< 0.005	0.09	—	0.09	0.09	—	0.09	—	516	516	0.02	< 0.005	—	518
Demolition	—	—	—	—	—	—	0.12	0.12	—	0.02	0.02	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.46	< 0.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	85.5	< 0.005	< 0.005	85.8
Demolition	—	—	—	—	—	—	0.02	0.02	0.02	—	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.13	0.13	0.00	0.00	0.03	0.03	0.03	—	111	< 0.005	< 0.005	0.01	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.65	0.16	< 0.005	0.01	0.16	0.17	0.01	0.01	0.04	0.05	0.05	—	512	0.01	0.08	0.02	536
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	0.00	< 0.005	< 0.005	< 0.005	—	17.2	< 0.005	< 0.005	0.01	17.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	0.01	0.01	—	77.1	< 0.005	0.01	0.05	80.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	< 0.005	—	2.84	< 0.005	< 0.005	< 0.005	2.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	< 0.005	< 0.005	0.01	13.4

3.2. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.61	5.07	18.3	0.03	0.10	—	0.10	0.10	—	0.10	—	3,426	3,426	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.76	2.75	< 0.005	0.02	—	0.02	0.01	—	0.01	—	516	516	0.02	< 0.005	—	518
Demolition	—	—	—	—	—	—	0.12	0.12	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	85.5	85.5	< 0.005	< 0.005	—	85.8
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	111	111	< 0.005	< 0.005	0.01	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.65	0.16	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	0.05	—	512	512	0.01	0.08	0.02	536
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	17.2	17.2	< 0.005	< 0.005	0.01	17.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	0.01	—	77.1	77.1	< 0.005	0.01	0.05	80.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	—	2.84	2.84	< 0.005	< 0.005	< 0.005	2.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.01	13.4

3.3. Site Preparation (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 Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	5,296	5,296	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	19.7	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.22	2.70	22.3	25.7	0.05	0.93	—	0.93	0.85	—	0.85	—	0.00	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	19.7	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.45	1.22	10.1	11.6	0.02	0.42	—	0.42	0.38	—	0.38	—	—	2,394	0.10	0.02	—	2,402
Dust From Material Movement	—	—	—	—	—	8.89	8.89	8.89	—	4.57	4.57	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	1.84	2.12	< 0.005	0.08	—	0.08	0.07	—	0.07	—	—	396	0.02	< 0.005	—	398

Dust From Material Movement	—	—	—	—	—	1.62	1.62	—	0.83	0.83	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	143	143	< 0.005	< 0.005	0.27	144
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	130	130	< 0.005	< 0.005	0.01	130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	60.0	60.0	< 0.005	< 0.005	0.05	60.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.94	9.94	< 0.005	< 0.005	0.01	9.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (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	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	1.17	12.8	0.02	0.05	—	0.05	0.05	—	0.05	—	2,394	2,394	0.10	0.02	—	2,402
Dust From Material Movement	—	—	—	—	—	—	8.89	8.89	—	4.57	4.57	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.21	2.34	< 0.005	0.01	—	0.01	0.01	0.00	0.00	0.00	0.01	—	396	396	0.02	< 0.005	—
Dust From Material Movement	—	—	—	—	—	—	1.62	1.62	0.83	0.83	—	—	0.83	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.57	0.00	0.00	0.15	0.15	0.03	0.03	0.03	—	0.03	—	143	143	< 0.005	< 0.005	0.27
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.15	0.15	0.03	0.03	0.03	—	0.03	—	130	130	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.21	0.00	0.00	0.07	0.07	0.02	0.02	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	0.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	< 0.005	0.00	< 0.005	—	< 0.005	—	9.94	9.94	< 0.005	< 0.005	0.01

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (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 Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05	2.56	19.4	25.8	0.06	0.79	—	0.79	0.73	—	0.73	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.78	0.66	4.97	6.60	0.02	0.20	—	0.20	0.19	—	0.19	—	1,688	1,688	0.07	0.01	—	1,694
Dust From Material Movement	—	—	—	—	—	—	2.36	2.36	0.94	0.94	0.94	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.91	1.20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	280	280	0.01	< 0.005	—	280
Dust From Material Movement	—	—	—	—	—	—	0.43	0.43	0.17	0.17	0.17	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.65	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	164	164	< 0.005	< 0.005	0.30	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	148	148	< 0.005	< 0.005	0.01	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	38.8	38.8	< 0.005	< 0.005	0.03	39.0

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	0.01	6.46	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (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	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.74	4.68	35.4	0.06	0.14	—	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619

Dust From Material Movement	—	—	—	—	—	—	—	—	—	9.20	9.20	3.65	3.65	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.19	1.20	9.05	0.02	0.04	—	0.04	0.04	—	0.04	0.04	—	0.04	1,688	1,688	0.07	0.01	—	—	—	—	1,694	—
Dust From Material Movement	—	—	—	—	—	—	—	—	—	2.36	2.36	0.94	0.94	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.22	1.65	< 0.005	0.01	—	0.01	0.01	—	0.01	0.01	—	0.01	280	280	0.01	< 0.005	—	—	—	—	280	—
Dust From Material Movement	—	—	—	—	—	—	—	—	—	0.43	0.43	0.17	0.17	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.65	0.00	0.00	0.17	0.17	0.00	0.17	0.17	0.04	0.04	—	164	164	< 0.005	< 0.005	0.30	164	164	164	164	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.51	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	—	148	148	< 0.005	< 0.005	0.01	149					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.04	0.04	0.00	0.01	0.01	0.01	—	38.8	38.8	< 0.005	< 0.005	0.03	39.0					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	0.01	6.46					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00					

3.7. Grading (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	2.97	2.50	18.5	25.2	0.06	0.73	—	0.73	0.68	—	0.68	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.97	2.50	18.5	25.2	0.06	0.73	—	0.73	0.68	—	0.68	—	6,596	6,596	0.27	0.05	—	6,619	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	3.65	3.65	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.55	2.14	15.9	21.6	0.05	0.63	—	0.63	0.58	—	0.58	—	5,654	5,654	0.23	0.05	—	5,673	5,673
Dust From Material Movement	—	—	—	—	—	—	7.89	7.89	3.13	3.13	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	2.90	3.95	0.01	0.11	—	0.11	0.11	—	0.11	—	936	936	0.04	0.01	—	939	939
Dust From Material Movement	—	—	—	—	—	—	1.44	1.44	0.57	0.57	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.62	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	0.26	162
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.48	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	0.01	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	128	128	< 0.005	< 0.005	0.10	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	21.2	21.2	< 0.005	< 0.005	0.02	21.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Grading (2033) - Mitigated

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

[illegible]

Off-Road	0.76	0.73	4.67	35.4	0.06	0.14	—	0.14	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	0.73	4.67	35.4	0.06	0.14	—	0.14	0.14	0.14	—	0.14	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.63	4.01	30.3	0.05	0.12	—	0.12	0.12	0.12	—	0.12	—	5,654	5,654	0.23	0.05	—	5,673
Dust From Material Movement	—	—	—	—	—	—	7.89	7.89	—	—	3.13	3.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	0.73	5.53	0.01	0.02	—	0.02	0.02	0.02	—	0.02	—	936	936	0.04	0.01	—	939

Dust From Material Movement	—	—	—	—	—	1.44	1.44	—	—	0.57	0.57	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.62	0.00	0.17	0.17	0.00	0.00	0.04	0.04	—	161	161	< 0.005	< 0.005	< 0.005	0.26	162
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.48	0.00	0.17	0.17	0.00	0.00	0.04	0.04	—	146	146	< 0.005	< 0.005	< 0.005	0.01	147
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.43	0.00	0.14	0.14	0.00	0.00	0.03	0.03	—	128	128	< 0.005	< 0.005	< 0.005	0.10	129
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.03	0.03	0.00	0.00	0.01	0.01	—	21.2	21.2	< 0.005	< 0.005	< 0.005	0.02	21.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	2.44	17.8	25.1	0.06	0.68	—	0.68	0.62	—	0.62	—	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.25	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	92.9	92.9	< 0.005	< 0.005	—	93.3
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.4	15.4	< 0.005	< 0.005	—	15.4

[illegible]

3.10. Grading (2034) - Mitigated

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

[illegible]

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.73	4.66	35.4	0.06	0.14	—	9.20	9.20	0.14	0.14	0.14	—	0.14	6,596	6,596	0.27	0.05	—	6,619
Dust From Material Movement	—	—	—	—	—	—	—	9.20	9.20	3.65	3.65	—	—	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.50	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	92.9	92.9	< 0.005	< 0.005	—	93.3
Dust From Material Movement	—	—	—	—	—	—	—	0.13	0.13	0.13	—	—	0.05	0.05	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.09	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	15.4	15.4	< 0.005	< 0.005	—	15.4
Dust From Material Movement	—	—	—	—	—	—	—	0.02	0.02	0.01	0.01	—	—	0.01	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.46	0.00	0.00	0.17	0.17	0.00	0.04	0.04	0.04	0.00	—	144	144	< 0.005	< 0.005	< 0.005	0.01	145	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	2.08	2.08	< 0.005	< 0.005	< 0.005	< 0.005	2.09	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	< 0.005	0.35	0.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	6.34	10.8	0.02	0.16	—	0.16	0.15	—	0.15	—	2,021	2,021	0.08	0.02	—	2,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.16	1.96	< 0.005	0.03	—	0.03	0.03	—	0.03	—	335	335	0.01	< 0.005	—	336
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.54	4.46	2.34	56.6	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	15,219	15,219	0.17	0.13	21.7	15,283
Vendor	0.48	0.30	11.7	4.26	0.09	0.09	3.60	3.70	0.09	1.00	1.09	—	10,431	10,431	0.16	1.59	9.83	10,918

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.33	4.25	3.06	43.8	0.00	0.00	16.0	0.00	3.76	3.76	3.76	13,774	13,774	0.25	0.13	0.56	13,819		
Vendor	0.44	0.27	12.5	4.40	0.09	0.09	3.60	3.70	1.00	1.09	1.09	10,444	10,444	0.16	1.59	0.25	10,921		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	38.0	0.00	0.00	13.5	13.5	3.16	3.16	3.16	11,900	11,900	0.18	0.11	7.91	11,944		
Vendor	0.39	0.24	10.2	3.65	0.08	0.08	3.03	3.11	0.84	0.92	0.92	8,799	8,799	0.13	1.34	3.57	9,204		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.94	0.00	0.00	2.46	2.46	0.58	0.58	0.58	1,970	1,970	0.03	0.02	1.31	1,977		
Vendor	0.07	0.04	1.87	0.67	0.01	0.01	0.55	0.57	0.15	0.17	0.17	1,457	1,457	0.02	0.22	0.59	1,524		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

3.12. 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	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.96	14.9	0.02	0.08	—	0.08	0.08	—	0.08	—	2,397	2,397	0.10	0.02	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.35	2.49	12.6	0.02	0.07	—	0.07	0.06	—	0.06	—	2,021	2,021	0.08	0.02	—	—	—	—	—	—	—	2,028
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.46	2.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	335	335	0.01	< 0.005	—	—	—	—	—	—	—	336
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.54	4.46	2.34	56.6	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	15,219	15,219	0.17	0.13	21.7	—	—	—	—	—	—	15,283
Vendor	0.48	0.30	11.7	4.26	0.09	0.09	3.60	3.70	0.09	1.00	1.09	—	10,431	10,431	0.16	1.59	9.83	—	—	—	—	—	—	10,918
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.33	4.25	3.06	43.8	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	13,774	13,774	0.25	0.13	0.56	—	—	—	—	—	—	13,819

Vendor	0.44	0.27	12.5	4.40	0.09	0.09	0.09	3.60	3.70	0.09	1.00	1.09	—	10,444	10,444	0.16	1.59	0.25	10,921
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	38.0	0.00	0.00	0.00	13.5	13.5	0.00	3.16	3.16	—	11,900	11,900	0.18	0.11	7.91	11,944
Vendor	0.39	0.24	10.2	3.65	0.08	0.08	0.08	3.03	3.11	0.08	0.84	0.92	—	8,799	8,799	0.13	1.34	3.57	9,204
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.94	0.00	0.00	0.00	2.46	2.46	0.00	0.58	0.58	—	1,970	1,970	0.03	0.02	1.31	1,977
Vendor	0.07	0.04	1.87	0.67	0.01	0.01	0.01	0.55	0.57	0.01	0.15	0.17	—	1,457	1,457	0.02	0.22	0.59	1,524
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. 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 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	6.29	10.9	0.02	0.15	0.14	0.15	0.14	0.00	0.00	0.00	0.14	—	2,054	2,054	0.08	0.02	—	2,061			
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.15	1.98	< 0.005	0.03	0.03	0.03	0.03	0.00	0.00	0.00	0.03	—	340	340	0.01	< 0.005	—	341			
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	4.42	2.34	54.1	0.00	0.00	16.0	16.0	0.00	3.76	3.76	0.00	3.76	—	15,048	15,048	0.17	0.13	18.6	15,108			
Vendor	0.48	0.30	11.3	4.16	0.09	0.09	3.60	3.70	0.09	1.00	1.09	0.00	1.09	—	10,124	10,124	0.16	1.49	8.15	10,581			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.25	4.16	3.01	42.1	0.00	0.00	16.0	16.0	0.00	3.76	3.76	0.00	3.76	—	13,619	13,619	0.25	0.13	0.48	13,664			
Vendor	0.44	0.27	12.1	4.30	0.09	0.09	3.60	3.70	0.09	1.00	1.09	0.00	1.09	—	10,136	10,136	0.16	1.49	0.21	10,586			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.64	3.53	2.08	37.3	0.00	0.00	13.7	13.7	0.00	3.21	3.21	0.00	3.21	—	11,963	11,963	0.18	0.11	6.87	12,006			
Vendor	0.39	0.24	10.1	3.62	0.08	0.08	3.08	3.16	0.08	0.85	0.93	0.00	0.85	—	8,682	8,682	0.13	1.28	3.02	9,070			

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.64	0.38	6.81	0.00	0.00	2.50	2.50	0.00	0.00	0.59	0.59	—	1,981	1,981	0.03	0.02	1.14	1,988
Vendor	0.07	0.04	1.85	0.66	0.01	0.01	0.56	0.58	0.01	0.16	0.17	—	—	1,437	1,437	0.02	0.21	0.50	1,502
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. 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	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.53	12.8	0.02	0.07	—	0.07	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	0.01	—	0.01	0.01	340	340	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	4.42	2.34	54.1	0.00	0.00	16.0	16.0	0.00	0.00	3.76	3.76	0.00	—	15,048	15,048	0.17	0.13	18.6
Vendor	0.48	0.30	11.3	4.16	0.09	0.09	3.60	3.70	0.09	1.00	1.09	1.09	—	10,124	10,124	0.16	1.49	8.15	10,581
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.25	4.16	3.01	42.1	0.00	0.00	16.0	16.0	0.00	3.76	3.76	0.00	—	13,619	13,619	0.25	0.13	0.48	13,664
Vendor	0.44	0.27	12.1	4.30	0.09	0.09	3.60	3.70	0.09	1.00	1.09	1.09	—	10,136	10,136	0.16	1.49	0.21	10,586
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.64	3.53	2.08	37.3	0.00	0.00	13.7	13.7	0.00	3.21	3.21	0.00	—	11,963	11,963	0.18	0.11	6.87	12,006
Vendor	0.39	0.24	10.1	3.62	0.08	0.08	3.08	3.16	0.08	0.85	0.93	0.93	—	8,682	8,682	0.13	1.28	3.02	9,070
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.64	0.38	6.81	0.00	0.00	2.50	2.50	0.00	0.59	0.59	0.00	—	1,981	1,981	0.03	0.02	1.14	1,988
Vendor	0.07	0.04	1.85	0.66	0.01	0.01	0.56	0.58	0.01	0.16	0.17	0.17	—	1,437	1,437	0.02	0.21	0.50	1,502
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.12	10.8	0.02	0.14	—	0.14	0.13	—	0.13	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.12	1.98	< 0.005	0.03	—	0.03	0.02	—	0.02	—	341	341	0.01	< 0.005	—	342

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.33	4.25	2.30	51.7	0.00	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	14,894	14,894	0.17	0.13	15.8	14,951	14,894	14,894	0.17	0.13	15.8	14,951
Vendor	0.47	0.29	11.1	4.16	0.09	0.09	0.09	3.60	3.70	0.09	1.00	1.09	1.09	—	9,847	9,847	0.16	1.49	6.69	10,302	9,847	9,847	0.16	1.49	6.69	10,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.16	4.08	2.47	40.4	0.00	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	13,480	13,480	0.21	0.13	0.41	13,523	13,480	13,480	0.21	0.13	0.41	13,523
Vendor	0.44	0.27	11.8	4.29	0.09	0.09	0.09	3.60	3.70	0.09	1.00	1.09	1.09	—	9,859	9,859	0.16	1.49	0.17	10,308	9,859	9,859	0.16	1.49	0.17	10,308
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	35.7	0.00	0.00	0.00	13.7	13.7	0.00	3.22	3.22	3.22	—	11,873	11,873	0.18	0.11	5.88	11,916	11,873	11,873	0.18	0.11	5.88	11,916
Vendor	0.40	0.24	9.87	3.63	0.08	0.08	0.08	3.09	3.17	0.08	0.85	0.93	0.93	—	8,468	8,468	0.14	1.28	2.48	8,856	8,468	8,468	0.14	1.28	2.48	8,856
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.51	0.00	0.00	0.00	2.51	2.51	0.00	0.59	0.59	0.59	—	1,966	1,966	0.03	0.02	0.97	1,973	1,966	1,966	0.03	0.02	0.97	1,973
Vendor	0.07	0.04	1.80	0.66	0.01	0.01	0.01	0.56	0.58	0.01	0.16	0.17	0.17	—	1,402	1,402	0.02	0.21	0.41	1,466	1,402	1,402	0.02	0.21	0.41	1,466
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. 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	0.46	0.42	2.95	14.9	0.02	0.08	0.08	0.07	0.08	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.95	14.9	0.02	0.08	0.08	0.07	0.08	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.53	12.8	0.02	0.07	0.07	0.06	0.07	0.06	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	—	—	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	0.01	0.01	0.01	0.01	0.01	—	0.01	—	341	341	0.01	< 0.005	—	—	—	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	4.33	4.25	2.30	51.7	0.00	0.00	16.0	16.0	3.76	3.76	—	14,894	14,894	0.17	0.13	15.8	14,951
Vendor	0.47	0.29	11.1	4.16	0.09	0.09	3.70	3.60	1.00	1.09	—	9,847	9,847	0.16	1.49	6.69	10,302
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.16	4.08	2.47	40.4	0.00	0.00	16.0	16.0	3.76	3.76	—	13,480	13,480	0.21	0.13	0.41	13,523
Vendor	0.44	0.27	11.8	4.29	0.09	0.09	3.70	3.60	1.00	1.09	—	9,859	9,859	0.16	1.49	0.17	10,308
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	35.7	0.00	0.00	13.7	13.7	3.22	3.22	—	11,873	11,873	0.18	0.11	5.88	11,916
Vendor	0.40	0.24	9.87	3.63	0.08	0.08	3.17	3.09	0.85	0.93	—	8,468	8,468	0.14	1.28	2.48	8,856
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.51	0.00	0.00	2.51	2.51	0.59	0.59	—	1,966	1,966	0.03	0.02	0.97	1,973
Vendor	0.07	0.04	1.80	0.66	0.01	0.01	0.58	0.56	0.16	0.17	—	1,402	1,402	0.02	0.21	0.41	1,466
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.98	0.82	6.99	12.5	0.02	0.16	—	0.14	0.00	0.14	—	0.14	0.00	0.14	0.00	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.70	5.99	10.7	0.02	0.14	—	0.14	0.12	0.12	—	0.12	0.00	0.12	0.08	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.09	1.96	< 0.005	0.02	—	0.02	0.02	0.02	—	0.02	0.00	0.02	0.01	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.12	4.04	1.80	50.4	0.00	0.00	16.0	16.0	0.00	0.00	3.76	3.76	0.00	3.76	0.17	14,759	14,759	0.13	0.13	13.4	14,814
Vendor	0.47	0.29	10.8	4.07	0.09	0.09	3.60	3.60	0.09	0.09	1.00	1.09	0.16	1.49	5.40	9,600	9,600	1.49	5.40	10,054	10,054
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	4.00	3.91	2.43	38.9	0.00	0.00	16.0	16.0	3.76	3.76	—	13,359	13,359	0.21	0.13	0.35	13,402
Vendor	0.44	0.27	11.5	4.19	0.09	0.09	3.60	3.70	1.00	1.09	—	9,613	9,613	0.16	1.49	0.14	10,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.39	3.32	2.01	34.4	0.00	0.00	13.7	13.7	3.21	3.21	—	11,734	11,734	0.18	0.11	4.96	11,775
Vendor	0.39	0.24	9.63	3.54	0.08	0.08	3.08	3.16	0.85	0.93	—	8,233	8,233	0.13	1.28	2.00	8,620
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.61	0.37	6.27	0.00	0.00	2.50	2.50	0.59	0.59	—	1,943	1,943	0.03	0.02	0.82	1,950
Vendor	0.07	0.04	1.76	0.65	0.01	0.01	0.56	0.58	0.16	0.17	—	1,363	1,363	0.02	0.21	0.33	1,427
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. 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 Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	0.06	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.12	4.04	1.80	50.4	0.00	0.00	16.0	16.0	0.00	3.76	14,759	14,759	0.17	0.13	13.4	14,814
Vendor	0.47	0.29	10.8	4.07	0.09	0.09	3.60	3.70	0.09	1.00	9,600	9,600	0.16	1.49	5.40	10,054
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.00	3.91	2.43	38.9	0.00	0.00	16.0	16.0	0.00	3.76	13,359	13,359	0.21	0.13	0.35	13,402
Vendor	0.44	0.27	11.5	4.19	0.09	0.09	3.60	3.70	0.09	1.00	9,613	9,613	0.16	1.49	0.14	10,062
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.39	3.32	2.01	34.4	0.00	0.00	13.7	13.7	0.00	3.21	3.21	3.21	—	11,734	11,734	0.18	0.11	4.96	11,775	—	—	—	—
Vendor	0.39	0.24	9.63	3.54	0.08	0.08	3.16	3.08	0.08	0.85	0.93	0.93	—	8,233	8,233	0.13	1.28	2.00	8,620	—	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.61	0.37	6.27	0.00	0.00	2.50	2.50	0.00	0.59	0.59	0.59	—	1,943	1,943	0.03	0.02	0.82	1,950	—	—	—	—
Vendor	0.07	0.04	1.76	0.65	0.01	0.01	0.58	0.56	0.01	0.16	0.17	0.17	—	1,363	1,363	0.02	0.21	0.33	1,427	—	—	—	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	—	—	—

3.19. Building Construction (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	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.81	6.89	12.5	0.02	0.15	—	0.15	0.14	—	0.14	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.70	5.91	10.7	0.02	0.13	0.12	—	0.12	—	—	0.12	—	—	2,054	2,054	0.08	0.02	—	—	2,061	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.15	0.13	1.08	1.95	< 0.005	0.02	0.02	—	0.02	—	—	0.02	—	—	340	340	0.01	< 0.005	—	—	341	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	4.00	3.91	1.76	49.1	0.00	0.00	0.00	16.0	0.00	0.00	0.00	3.76	—	—	14,584	14,584	0.17	0.13	11.3	14,637		
Vendor	0.47	0.29	10.6	4.07	0.09	0.09	0.09	3.60	0.09	0.09	1.00	1.09	—	—	9,378	9,378	0.16	1.40	4.32	9,803		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00		
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.78	3.20	2.43	37.4	0.00	0.00	0.00	16.0	0.00	0.00	3.76	3.76	—	—	13,199	13,199	0.21	0.13	0.29	13,242		
Vendor	0.44	0.27	11.3	4.19	0.09	0.09	0.09	3.60	0.09	0.09	1.00	1.09	—	—	9,391	9,391	0.15	1.40	0.11	9,811		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.24	3.17	2.01	33.6	0.00	0.00	0.00	13.7	0.00	0.00	3.21	3.21	—	—	11,594	11,594	0.14	0.11	4.18	11,634		
Vendor	0.39	0.24	9.44	3.54	0.08	0.08	0.08	3.08	0.08	0.85	0.93	0.93	—	—	8,043	8,043	0.13	1.20	1.60	8,405		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Worker	0.59	0.58	0.37	6.13	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,919	1,919	0.02	0.02	0.69	1,926
Vendor	0.07	0.04	1.72	0.65	0.01	0.01	0.56	0.58	0.01	0.16	0.17	—	1,332	1,332	0.02	0.20	0.27	1,392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Building Construction (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	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.94	14.9	0.02	0.08	—	0.08	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	340	340	0.01	< 0.005	—	—	—	—	—	341	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	4.00	3.91	1.76	49.1	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	14,584	14,584	0.17	0.13	11.3	0.13	11.3	14,637			
Vendor	0.47	0.29	10.6	4.07	0.09	0.09	3.70	3.60	0.09	1.00	1.09	—	9,378	9,378	0.16	1.40	4.32	1.40	4.32	9,803			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	3.78	3.20	2.43	37.4	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	13,199	13,199	0.21	0.13	0.29	0.13	0.29	13,242			
Vendor	0.44	0.27	11.3	4.19	0.09	0.09	3.70	3.60	0.09	1.00	1.09	—	9,391	9,391	0.15	1.40	0.11	1.40	0.11	9,811			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	3.24	3.17	2.01	33.6	0.00	0.00	13.7	13.7	0.00	3.21	3.21	—	11,594	11,594	0.14	0.11	4.18	0.11	4.18	11,634			
Vendor	0.39	0.24	9.44	3.54	0.08	0.08	3.16	3.08	0.08	0.85	0.93	—	8,043	8,043	0.13	1.20	1.60	1.20	1.60	8,405			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Worker	0.59	0.58	0.37	6.13	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,919	1,919	0.02	0.02	0.69	0.02	0.69	1,926			
Vendor	0.07	0.04	1.72	0.65	0.01	0.01	0.58	0.56	0.01	0.16	0.17	—	1,332	1,332	0.02	0.20	0.27	0.20	0.27	1,392			
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

3.21. Building Construction (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	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	0.80	6.78	12.4	0.02	0.15	—	0.15	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.81	10.6	0.02	0.12	—	0.12	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.06	1.94	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.78	3.20	1.76	47.8	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	14,482	14,482	0.17	0.13	9.45	14,533						
Vendor	0.47	0.29	10.4	3.97	0.09	0.09	3.70	3.60	0.09	1.00	1.09	—	9,180	9,180	0.15	1.40	3.41	9,604						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	3.70	3.12	2.39	36.6	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	13,106	13,106	0.21	0.13	0.25	13,149						
Vendor	0.44	0.27	11.1	4.11	0.09	0.09	3.70	3.60	0.09	1.00	1.09	—	9,193	9,193	0.15	1.40	0.09	9,613						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	3.14	2.63	1.97	32.5	0.00	0.00	13.7	13.7	0.00	3.21	3.21	—	11,513	11,513	0.14	0.11	3.50	11,552						
Vendor	0.39	0.24	9.24	3.46	0.08	0.08	3.16	3.08	0.08	0.85	0.93	—	7,873	7,873	0.13	1.20	1.26	8,235						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
Worker	0.57	0.48	0.36	5.92	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,906	1,906	0.02	0.02	0.58	1,913						
Vendor	0.07	0.04	1.69	0.63	0.01	0.01	0.58	0.56	0.01	0.16	0.17	—	1,304	1,304	0.02	0.20	0.21	1,363						
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						

3.22. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.78	3.20	1.76	47.8	0.00	0.00	16.0	16.0	0.00	0.00	—	14,482	14,482	0.17	0.13	9.45	14,533
Vendor	0.47	0.29	10.4	3.97	0.09	0.09	3.60	3.70	0.09	1.00	—	9,180	9,180	0.15	1.40	3.41	9,604
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.70	3.12	2.39	36.6	0.00	0.00	16.0	16.0	16.0	0.00	3.76	3.76	3.76	—	—	13,106	13,106	0.21	0.13	0.25	13,149	—	
Vendor	0.44	0.27	11.1	4.11	0.09	0.09	3.60	3.60	3.70	0.09	1.00	1.09	1.09	—	—	9,193	9,193	0.15	1.40	0.09	9,613	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.14	2.63	1.97	32.5	0.00	0.00	13.7	13.7	13.7	0.00	3.21	3.21	3.21	—	—	11,513	11,513	0.14	0.11	3.50	11,552	—	
Vendor	0.39	0.24	9.24	3.46	0.08	0.08	3.08	3.08	3.16	0.08	0.85	0.93	0.93	—	—	7,873	7,873	0.13	1.20	1.26	8,235	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.57	0.48	0.36	5.92	0.00	0.00	2.50	2.50	2.50	0.00	0.59	0.59	0.59	—	—	1,906	1,906	0.02	0.02	0.58	1,913	—	
Vendor	0.07	0.04	1.69	0.63	0.01	0.01	0.56	0.56	0.58	0.01	0.16	0.17	0.17	—	—	1,304	1,304	0.02	0.20	0.21	1,363	—	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	

3.23. Building Construction (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	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.96	0.80	6.71	12.4	0.02	0.14	—	0.14	—	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	5.76	10.6	0.02	0.12	—	0.12	—	0.11	—	0.11	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.05	1.94	< 0.005	0.02	—	0.02	—	0.02	—	0.02	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.57	3.03	1.72	46.6	0.00	0.00	16.0	16.0	16.0	0.00	3.76	3.76	—	14,393	14,393	0.13	0.13	7.87	14,442
Vendor	0.47	0.30	10.2	3.97	0.09	0.09	3.60	3.70	3.60	0.09	1.00	1.09	—	9,003	9,003	0.15	1.40	2.67	9,426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.91	2.39	35.7	0.00	0.00	16.0	16.0	16.0	0.00	3.76	3.76	—	13,027	13,027	0.21	0.13	0.20	13,070
Vendor	0.44	0.27	10.9	4.11	0.09	0.09	3.60	3.70	3.60	0.09	1.00	1.09	—	9,015	9,015	0.15	1.40	0.07	9,436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	3.00	2.53	1.55	31.9	0.00	0.00	13.7	13.7	0.00	3.22	3.22	—	11,474	11,474	0.14	0.11	2.93	11,513
Vendor	0.40	0.25	9.15	3.47	0.08	0.08	3.09	3.17	0.08	0.93	0.85	—	7,742	7,742	0.13	1.20	0.99	8,105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.46	0.28	5.82	0.00	0.00	2.51	2.51	0.00	0.59	0.59	—	1,900	1,900	0.02	0.02	0.48	1,906
Vendor	0.07	0.05	1.67	0.63	0.01	0.01	0.56	0.58	0.01	0.16	0.17	—	1,282	1,282	0.02	0.20	0.16	1,342
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	—	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.57	3.03	1.72	46.6	0.00	0.00	16.0	16.0	3.76	0.00	—	14,393	14,393	0.13	0.13	7.87	14,442
Vendor	0.47	0.30	10.2	3.97	0.09	0.09	3.60	3.70	1.00	1.09	—	9,003	9,003	0.15	1.40	2.67	9,426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.91	2.39	35.7	0.00	0.00	16.0	16.0	3.76	3.76	—	13,027	13,027	0.21	0.13	0.20	13,070
Vendor	0.44	0.27	10.9	4.11	0.09	0.09	3.60	3.70	1.00	1.09	—	9,015	9,015	0.15	1.40	0.07	9,436
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.00	2.53	1.55	31.9	0.00	0.00	13.7	13.7	3.22	3.22	—	11,474	11,474	0.14	0.11	2.93	11,513
Vendor	0.40	0.25	9.15	3.47	0.08	0.08	3.09	3.17	0.85	0.93	—	7,742	7,742	0.13	1.20	0.99	8,105
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.46	0.28	5.82	0.00	0.00	2.51	2.51	0.59	0.59	—	1,900	1,900	0.02	0.02	0.48	1,906
Vendor	0.07	0.05	1.67	0.63	0.01	0.01	0.56	0.58	0.16	0.17	—	1,282	1,282	0.02	0.20	0.16	1,342

3.25. Building Construction (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	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.80	6.65	12.3	0.02	0.14	—	0.14	0.13	—	0.13	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.70	10.6	0.02	0.12	—	0.12	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.15	0.12	1.04	1.93	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.95	1.72	45.9	0.00	0.00	16.0	0.00	0.00	3.76	3.76	—	14,317	14,317	0.13	0.13	6.56	14,365
Vendor	0.47	0.30	10.0	3.98	0.09	0.09	3.60	3.70	0.09	1.00	1.09	—	8,844	8,844	0.15	1.40	2.06	9,266
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.36	2.78	2.34	34.9	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	12,958	12,958	0.17	0.13	0.17	13,000
Vendor	0.44	0.27	10.8	4.12	0.09	0.09	3.60	3.70	0.09	1.00	1.09	—	8,857	8,857	0.15	1.40	0.05	9,277
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.85	2.38	1.54	31.1	0.00	0.00	13.7	13.7	0.00	3.21	3.21	—	11,382	11,382	0.14	0.11	2.43	11,420
Vendor	0.39	0.25	8.94	3.47	0.08	0.08	3.08	3.16	0.08	0.85	0.93	—	7,585	7,585	0.13	1.20	0.76	7,946
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.43	0.28	5.68	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,884	1,884	0.02	0.02	0.40	1,891
Vendor	0.07	0.05	1.63	0.63	0.01	0.01	0.56	0.58	0.01	0.16	0.17	—	1,256	1,256	0.02	0.20	0.13	1,316
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.26. Building Construction (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.95	1.72	45.9	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	14,317	14,317	0.13	0.13	6.56	14,365				
Vendor	0.47	0.30	10.0	3.98	0.09	0.09	3.70	3.60	0.09	1.00	1.09	1.09	—	8,844	8,844	0.15	1.40	2.06	9,266				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	3.36	2.78	2.34	34.9	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	12,958	12,958	0.17	0.13	0.17	13,000				
Vendor	0.44	0.27	10.8	4.12	0.09	0.09	3.70	3.60	0.09	1.00	1.09	1.09	—	8,857	8,857	0.15	1.40	0.05	9,277				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.85	2.38	1.54	31.1	0.00	0.00	13.7	13.7	0.00	3.21	3.21	3.21	—	11,382	11,382	0.14	0.11	2.43	11,420				
Vendor	0.39	0.25	8.94	3.47	0.08	0.08	3.16	3.08	0.08	0.85	0.93	0.93	—	7,585	7,585	0.13	1.20	0.76	7,946				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.52	0.43	0.28	5.68	0.00	0.00	2.50	2.50	0.00	0.59	0.59	0.59	—	1,884	1,884	0.02	0.02	0.40	1,891				
Vendor	0.07	0.05	1.63	0.63	0.01	0.01	0.56	0.56	0.01	0.16	0.17	0.17	—	1,256	1,256	0.02	0.20	0.13	1,316				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				

3.27. Building Construction (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 Equipm	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95	0.79	6.60	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	0.68	5.66	10.6	0.02	0.12	—	0.12	0.11	—	0.11	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.03	1.93	< 0.005	0.02	—	0.02	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.36	2.78	1.72	45.2	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	14,251	14,251	0.13	0.13	5.43	14,297
Vendor	0.47	0.30	9.90	3.89	0.09	0.09	3.60	3.60	0.09	1.00	1.09	—	8,702	8,702	0.15	1.30	1.58	9,096
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.32	2.74	1.84	34.2	0.00	0.00	16.0	16.0	16.0	0.00	3.76	3.76	3.76	—	12,898	12,898	0.17	0.13	0.14	12,940				
Vendor	0.44	0.27	10.6	4.02	0.09	0.09	3.70	3.60	3.60	0.09	1.00	1.09	—	8,715	8,715	0.15	1.30	0.04	9,108					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	2.77	2.31	1.51	30.5	0.00	0.00	13.7	13.7	13.7	0.00	3.21	3.21	—	11,329	11,329	0.14	0.11	2.01	11,367					
Vendor	0.39	0.25	8.83	3.39	0.08	0.08	3.16	3.08	3.08	0.08	0.85	0.93	—	7,464	7,464	0.13	1.12	0.59	7,801					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Worker	0.51	0.42	0.28	5.57	0.00	0.00	2.50	2.50	2.50	0.00	0.59	0.59	—	1,876	1,876	0.02	0.02	0.33	1,882					
Vendor	0.07	0.05	1.61	0.62	0.01	0.01	0.58	0.56	0.56	0.01	0.16	0.17	—	1,236	1,236	0.02	0.18	0.10	1,291					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.28. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.36	2.78	1.72	45.2	0.00	0.00	16.0	16.0	3.76	3.76	—	14,251	14,251	0.13	0.13	5.43	14,297
Vendor	0.47	0.30	9.90	3.89	0.09	0.09	3.60	3.70	1.00	1.09	—	8,702	8,702	0.15	1.30	1.58	9,096
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.32	2.74	1.84	34.2	0.00	0.00	16.0	16.0	3.76	3.76	—	12,898	12,898	0.17	0.13	0.14	12,940
Vendor	0.44	0.27	10.6	4.02	0.09	0.09	3.60	3.70	1.00	1.09	—	8,715	8,715	0.15	1.30	0.04	9,108
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.77	2.31	1.51	30.5	0.00	0.00	0.00	13.7	13.7	0.00	3.21	3.21	—	11,329	11,329	0.14	0.11	2.01	11,367
Vendor	0.39	0.25	8.83	3.39	0.08	0.08	0.08	3.16	3.08	0.08	0.85	0.93	—	7,464	7,464	0.13	1.12	0.59	7,801
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.42	0.28	5.57	0.00	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,876	1,876	0.02	0.02	0.33	1,882
Vendor	0.07	0.05	1.61	0.62	0.01	0.01	0.01	0.58	0.56	0.01	0.16	0.17	—	1,236	1,236	0.02	0.18	0.10	1,291
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Building Construction (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	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.79	6.55	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.81	0.67	5.61	10.5	0.02	0.11	—	0.11	—	0.10	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.67	44.6	0.00	0.00	16.0	16.0	3.76	3.76	—	14,193	14,193	0.13	0.13	4.46	14,238
Vendor	0.47	0.29	9.78	3.90	0.09	0.09	3.60	3.70	1.00	1.09	—	8,579	8,579	0.15	1.30	1.21	8,972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.84	34.0	0.00	0.00	16.0	16.0	3.76	3.76	—	12,846	12,846	0.17	0.13	0.12	12,888
Vendor	0.44	0.27	10.5	4.02	0.09	0.09	3.60	3.70	1.00	1.09	—	8,592	8,592	0.15	1.30	0.03	8,984
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.74	2.24	1.51	30.4	0.00	0.00	13.7	13.7	3.21	3.21	—	11,284	11,284	0.14	0.11	1.65	11,321
Vendor	0.39	0.25	8.73	3.40	0.08	0.08	3.08	3.16	0.85	0.93	—	7,358	7,358	0.13	1.12	0.45	7,695
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.28	5.54	0.00	0.00	2.50	2.50	0.59	0.59	—	1,868	1,868	0.02	0.02	0.27	1,874
Vendor	0.07	0.05	1.59	0.62	0.01	0.01	0.56	0.58	0.16	0.17	—	1,218	1,218	0.02	0.18	0.07	1,274

3.30. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	—	0.01	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.67	44.6	0.00	0.00	16.0	0.00	3.76	3.76	—	14,193	14,193	0.13	0.13	4.46	14,238
Vendor	0.47	0.29	9.78	3.90	0.09	0.09	3.70	0.09	1.00	1.09	—	8,579	8,579	0.15	1.30	1.21	8,972
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.84	34.0	0.00	0.00	16.0	0.00	3.76	3.76	—	12,846	12,846	0.17	0.13	0.12	12,888
Vendor	0.44	0.27	10.5	4.02	0.09	0.09	3.70	0.09	1.00	1.09	—	8,592	8,592	0.15	1.30	0.03	8,984
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.74	2.24	1.51	30.4	0.00	0.00	13.7	0.00	3.21	3.21	—	11,284	11,284	0.14	0.11	1.65	11,321
Vendor	0.39	0.25	8.73	3.40	0.08	0.08	3.16	0.08	0.85	0.93	—	7,358	7,358	0.13	1.12	0.45	7,695
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.28	5.54	0.00	0.00	2.50	0.00	0.59	0.59	—	1,868	1,868	0.02	0.02	0.27	1,874
Vendor	0.07	0.05	1.59	0.62	0.01	0.01	0.58	0.01	0.16	0.17	—	1,218	1,218	0.02	0.18	0.07	1,274
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.31. Building Construction (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
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	0.11	—	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.93	0.78	6.48	12.2	0.02	0.12	—	0.12	0.11	0.12	—	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	5.57	10.5	0.02	0.11	—	0.11	0.10	0.11	—	0.10	—	0.10	—	2,060	2,060	0.08	0.02	—	—	—	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 0.005	0.02	—	0.02	0.02	0.02	—	0.02	—	0.02	—	341	341	0.01	< 0.005	—	—	—	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.20	2.61	1.67	44.0	0.00	0.00	16.0	16.0	16.0	3.76	3.76	3.76	—	14,146	14,146	0.13	0.08	3.67	14,178				
Vendor	0.37	0.29	9.66	3.90	0.09	0.09	3.70	3.60	3.60	1.09	1.00	1.09	—	8,471	8,471	0.15	1.30	0.92	8,864				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.80	33.3	0.00	0.00	16.0	16.0	16.0	3.76	3.76	3.76	—	12,803	12,803	0.17	0.13	0.10	12,845				
Vendor	0.34	0.27	10.3	4.02	0.09	0.09	3.70	3.60	3.60	1.09	1.00	1.09	—	8,484	8,484	0.15	1.30	0.02	8,876				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.21	1.51	29.9	0.00	0.00	13.7	13.7	13.7	3.22	3.22	3.22	—	11,277	11,277	0.14	0.11	1.36	11,314				
Vendor	0.31	0.24	8.65	3.41	0.08	0.08	3.17	3.09	3.09	0.93	0.85	0.93	—	7,286	7,286	0.13	1.12	0.34	7,623				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	5.46	0.00	0.00	2.51	2.51	2.51	0.59	0.59	0.59	—	1,867	1,867	0.02	0.02	0.23	1,873				
Vendor	0.06	0.04	1.58	0.62	0.01	0.01	0.58	0.56	0.56	0.17	0.16	0.17	—	1,206	1,206	0.02	0.19	0.06	1,262				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				

3.32. Building Construction (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 Equipm	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.52	12.8	0.02	0.06	—	0.06	0.06	—	0.06	—	2,060	2,060	0.08	0.02	—	2,067
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	341	341	0.01	< 0.005	—	342
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.20	2.61	1.67	44.0	0.00	0.00	16.0	16.0	0.00	3.76	3.76	—	14,146	14,146	0.13	0.08	3.67	14,178
Vendor	0.37	0.29	9.66	3.90	0.09	0.09	3.60	3.70	0.09	1.00	1.00	—	8,471	8,471	0.15	1.30	0.92	8,864
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.80	33.3	0.00	0.00	16.0	16.0	16.0	0.00	3.76	3.76	3.76	—	12,803	12,803	0.17	0.13	0.10	12,845
Vendor	0.34	0.27	10.3	4.02	0.09	0.09	3.60	3.60	3.70	0.09	1.00	1.09	1.09	—	8,484	8,484	0.15	1.30	0.02	8,876
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.21	1.51	29.9	0.00	0.00	13.7	13.7	13.7	0.00	3.22	3.22	3.22	—	11,277	11,277	0.14	0.11	1.36	11,314
Vendor	0.31	0.24	8.65	3.41	0.08	0.08	3.09	3.09	3.17	0.08	0.85	0.93	0.93	—	7,286	7,286	0.13	1.12	0.34	7,623
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	5.46	0.00	0.00	2.51	2.51	2.51	0.00	0.59	0.59	0.59	—	1,867	1,867	0.02	0.02	0.23	1,873
Vendor	0.06	0.04	1.58	0.62	0.01	0.01	0.56	0.56	0.58	0.01	0.16	0.17	0.17	—	1,206	1,206	0.02	0.19	0.06	1,262
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.33. Building Construction (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	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.92	0.77	6.42	12.2	0.02	0.12	—	0.12	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	5.50	10.4	0.02	0.10	—	0.09	—	0.09	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.00	1.90	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.67	43.9	0.00	0.00	16.0	16.0	3.76	3.76	—	14,104	14,104	0.13	0.08	3.01	14,136
Vendor	0.37	0.29	9.54	3.91	0.09	0.09	3.60	3.70	1.00	1.09	—	8,378	8,378	0.15	1.30	0.68	8,771
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.57	2.53	1.80	33.2	0.00	0.00	16.0	16.0	3.76	3.76	—	12,765	12,765	0.17	0.13	0.08	12,807
Vendor	0.34	0.26	10.3	4.02	0.09	0.09	3.60	3.70	1.00	1.09	—	8,391	8,391	0.15	1.30	0.02	8,783
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.63	2.13	1.47	29.8	0.00	0.00	13.7	13.7	0.00	3.21	3.21	—	11,213	11,213	0.11	0.11	1.11	11,249
Vendor	0.31	0.24	8.53	3.40	0.08	0.08	3.16	3.08	0.08	0.85	0.93	—	7,186	7,186	0.13	1.12	0.25	7,522
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.39	0.27	5.43	0.00	0.00	2.50	2.50	0.00	0.59	0.59	—	1,856	1,856	0.02	0.02	0.18	1,862
Vendor	0.06	0.04	1.56	0.62	0.01	0.01	0.58	0.56	0.01	0.16	0.17	—	1,190	1,190	0.02	0.18	0.04	1,245
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.34. Building Construction (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	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.40	0.36	2.51	12.8	0.02	0.06	—	0.06	—	0.06	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	2.33	< 0.005	0.01	—	0.01	0.01	—	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.67	43.9	0.00	0.00	16.0	16.0	3.76	0.00	—	14,104	14,104	0.13	0.08	3.01	14,136
Vendor	0.37	0.29	9.54	3.91	0.09	0.09	3.60	3.70	1.00	0.09	—	8,378	8,378	0.15	1.30	0.68	8,771
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.57	2.53	1.80	33.2	0.00	0.00	16.0	16.0	3.76	0.00	—	12,765	12,765	0.17	0.13	0.08	12,807
Vendor	0.34	0.26	10.3	4.02	0.09	0.09	3.60	3.70	1.00	0.09	—	8,391	8,391	0.15	1.30	0.02	8,783
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.63	2.13	1.47	29.8	0.00	0.00	13.7	13.7	3.21	0.00	—	11,213	11,213	0.11	0.11	1.11	11,249
Vendor	0.31	0.24	8.53	3.40	0.08	0.08	3.08	3.16	0.85	0.08	—	7,186	7,186	0.13	1.12	0.25	7,522
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.48	0.39	0.27	5.43	0.00	0.00	2.50	2.50	0.59	0.00	—	1,856	1,856	0.02	0.02	0.18	1,862
Vendor	0.06	0.04	1.56	0.62	0.01	0.01	0.56	0.58	0.16	0.01	—	1,190	1,190	0.02	0.18	0.04	1,245

3.35. Building Construction (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	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	6.38	12.1	0.02	0.12	—	0.12	0.11	—	0.11	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	0.66	5.47	10.4	0.02	0.10	—	0.10	0.09	—	0.09	—	2,054	2,054	0.08	0.02	—	2,061
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.14	0.12	1.00	1.90	< 0.005	0.02	—	0.02	—	0.02	—	340	340	0.01	< 0.005	—	341
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.07	2.53	1.67	43.4	0.00	0.00	16.0	0.00	3.76	3.76	—	14,069	14,069	0.13	0.08	2.46	14,100
Vendor	0.37	0.29	9.53	3.92	0.09	0.09	3.70	0.09	1.00	1.09	—	8,297	8,297	0.15	1.30	0.50	8,690
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.53	2.44	1.80	33.1	0.00	0.00	16.0	0.00	3.76	3.76	—	12,734	12,734	0.17	0.13	0.06	12,776
Vendor	0.34	0.27	10.2	4.03	0.09	0.09	3.70	0.09	1.00	1.09	—	8,310	8,310	0.15	1.30	0.01	8,703
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.52	2.06	1.47	29.7	0.00	0.00	13.7	0.00	3.21	3.21	—	11,186	11,186	0.11	0.11	0.91	11,222
Vendor	0.30	0.24	8.52	3.40	0.08	0.08	3.16	0.08	0.85	0.93	—	7,117	7,117	0.13	1.12	0.18	7,453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.38	0.27	5.42	0.00	0.00	2.50	0.00	0.59	0.59	—	1,852	1,852	0.02	0.02	0.15	1,858
Vendor	0.06	0.04	1.55	0.62	0.01	0.01	0.56	0.58	0.16	0.17	—	1,178	1,178	0.02	0.18	0.03	1,234
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Building Construction (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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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.07	2.53	1.67	43.4	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	14,069	14,069	0.13	0.08	2.46	14,100				
Vendor	0.37	0.29	9.53	3.92	0.09	0.09	3.70	3.60	0.09	1.00	1.09	1.09	—	8,297	8,297	0.15	1.30	0.50	8,690				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.53	2.44	1.80	33.1	0.00	0.00	16.0	16.0	0.00	3.76	3.76	3.76	—	12,734	12,734	0.17	0.13	0.06	12,776				
Vendor	0.34	0.27	10.2	4.03	0.09	0.09	3.70	3.60	0.09	1.00	1.09	1.09	—	8,310	8,310	0.15	1.30	0.01	8,703				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.52	2.06	1.47	29.7	0.00	0.00	13.7	13.7	0.00	3.21	3.21	3.21	—	11,186	11,186	0.11	0.11	0.91	11,222				
Vendor	0.30	0.24	8.52	3.40	0.08	0.08	3.16	3.08	0.08	0.85	0.93	0.93	—	7,117	7,117	0.13	1.12	0.18	7,453				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.38	0.27	5.42	0.00	0.00	2.50	2.50	0.00	0.59	0.59	0.59	—	1,852	1,852	0.02	0.02	0.15	1,858				
Vendor	0.06	0.04	1.55	0.62	0.01	0.01	0.58	0.56	0.01	0.16	0.17	0.17	—	1,178	1,178	0.02	0.18	0.03	1,234				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				

3.37. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	6.33	12.1	0.02	0.11	0.11	0.11	—	0.11	0.11	0.11	—	—	2,397	2,397	0.10	0.02	—	—	—	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	0.01	0.01	0.04	0.09	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	—	16.9	16.9	< 0.005	< 0.005	—	—	—	—	16.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Off-Road Equipment	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	—	2.80	2.80	< 0.005	< 0.005	—	—	—	—	2.81
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	2.48	2.44	1.80	33.0	0.00	0.00	0.00	0.00	16.0	16.0	0.00	0.00	3.76	3.76	12,708	12,708	0.17	0.13	0.05	0.05	0.05	0.05	12,750
Vendor	0.33	0.27	10.1	3.95	0.09	0.09	0.09	0.09	3.60	3.60	0.09	0.09	1.00	1.09	8,241	8,241	0.15	1.30	0.01	0.01	0.01	0.01	8,633
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	91.8	91.8	< 0.005	< 0.005	0.01	92.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	58.0	58.0	< 0.005	< 0.005	< 0.005	60.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.38. Building Construction (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	2.93	14.9	0.02	0.07	—	0.07	0.07	—	0.07	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.9	16.9	< 0.005	< 0.005	—	16.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.44	1.80	33.0	0.00	0.00	16.0	16.0	3.76	3.76	3.76	—	—	12,708	12,708	0.17	0.13	0.05	12,750
Vendor	0.33	0.27	10.1	3.95	0.09	0.09	3.60	3.70	1.00	1.09	1.09	—	—	8,241	8,241	0.15	1.30	0.01	8,633
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.11	0.11	0.03	0.03	0.03	—	—	91.8	91.8	< 0.005	< 0.005	0.01	92.0
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	0.01	0.01	0.01	—	—	58.0	58.0	< 0.005	0.01	< 0.005	60.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	< 0.005	< 0.005	< 0.005	—	—	15.2	15.2	< 0.005	< 0.005	< 0.005	15.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	9.60	9.60	< 0.005	< 0.005	< 0.005	10.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	—	0.00	0.00	0.00	0.00	0.00	0.00

3.39. Paving (2047) - Unmitigated

[illegible]

Off-Road Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	5.00	9.71	0.01	0.07	—	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.37	4.14	8.03	0.01	0.06	—	0.06	—	0.05	—	1,250	1,250	0.05	0.01	—	1,254
Paving	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.76	1.47	<0.005	0.01	—	0.01	—	0.01	—	207	207	0.01	< 0.005	—	208
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	110	110	< 0.005	< 0.005	< 0.005	0.02	111				
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	99.8	99.8	< 0.005	< 0.005	< 0.005	< 0.005	100				
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.22	0.00	0.00	0.10	0.10	0.00	0.02	0.02	0.02	—	84.6	84.6	< 0.005	< 0.005	< 0.005	0.01	84.9				
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	< 0.005	< 0.005	14.1				
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00				

3.40. Paving (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	0.27	0.24	2.08	10.5	0.01	0.04	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.24	2.08	10.5	0.01	0.04	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.15	0.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.20	1.72	8.65	0.01	0.03	0.03	0.03	—	0.03	—	1,250	1,250	0.05	0.01	—	1,254
Paving	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.31	1.58	< 0.005	0.01	0.01	0.01	—	0.01	—	207	207	0.01	< 0.005	—	208
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.34	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	110	110	< 0.005	< 0.005	< 0.005	0.02	111					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	0.03	—	99.8	99.8	< 0.005	< 0.005	< 0.005	< 0.005	100					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	0.02	0.02	0.01	0.22	0.00	0.00	0.10	0.10	0.00	0.02	0.02	0.02	—	84.6	84.6	< 0.005	< 0.005	< 0.005	0.01	84.9					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	< 0.005	< 0.005	14.1					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	< 0.005	< 0.005	14.1					
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00					

3.41. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—					

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	134	134	0.01	< 0.005	—	—	—	—	—	—	134
Architectural Coatings	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	2.82	2.82	< 0.005	< 0.005	—	—	—	—	—	—	2.83
Architectural Coatings	1.18	1.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	—	—	—	—	—	—	0.47
Architectural Coatings	0.22	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.49	0.36	6.60	0.00	0.00	0.00	3.21	3.21	0.00	0.75	0.75	0.75	—	2,542	2,542	0.03	0.03	0.01	2,550			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.00	0.07	0.07	0.00	0.02	0.02	0.02	—	55.1	55.1	< 0.005	< 0.005	< 0.005	55.2			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	< 0.005	9.14			
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.42. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	2.82	2.82	< 0.005	< 0.005	—	2.83
Architectural Coatings	1.18	1.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	0.47	0.47	< 0.005	< 0.005	—	0.47
Architectural Coatings	0.22	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.49	0.36	6.60	0.00	0.00	0.00	3.21	3.21	0.00	0.75	0.75	—	2,542	2,542	0.03	0.03	0.01	2,550	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	55.1	55.1	< 0.005	< 0.005	< 0.005	55.2	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	< 0.005	9.14	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	

3.43. 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 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	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.00	0.00	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.60	0.88	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.00	0.00	< 0.005	—	108	108	< 0.005	< 0.005	—	108
Architectural Coatings	44.9	44.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.00	0.00	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Architectural Coatings	8.20	8.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.61	0.50	0.33	8.65	0.00	0.00	0.00	3.21	3.21	0.00	0.75	0.75	—	2,804	2,804	0.03	0.02	0.34	2,810
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.49	0.36	6.58	0.00	0.00	0.00	3.21	3.21	0.00	0.75	0.75	—	2,537	2,537	0.03	0.03	0.01	2,546
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.39	0.28	5.48	0.00	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,095	2,095	0.02	0.02	0.12	2,101
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	1.00	0.00	0.00	0.00	0.47	0.47	0.00	0.11	0.11	—	347	347	< 0.005	< 0.005	0.02	348
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.44. Architectural Coating (2048) - Mitigated

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

[illegible]

Off-Road	0.11	0.09	0.74	1.09	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.74	1.09	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	55.8	55.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.60	0.88	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	108	108	< 0.005	< 0.005	—	108
Architectural Coatings	44.9	44.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	17.8	17.8	< 0.005	< 0.005	—	17.9

Architect Coatings	8.20	8.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.61	0.50	0.33	8.65	0.00	0.00	3.21	3.21	0.00	0.75	0.75	—	2,804	2,804	0.03	0.02	0.34	2,810	0.00	0.00	0.00	0.00	0.00	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.50	0.49	0.36	6.58	0.00	0.00	3.21	3.21	0.00	0.75	0.75	—	2,537	2,537	0.03	0.03	0.01	2,546	0.00	0.00	0.00	0.00	0.00	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.39	0.39	0.28	5.48	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,095	2,095	0.02	0.02	0.12	2,101	0.00	0.00	0.00	0.00	0.00	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worker	0.07	0.07	0.05	1.00	0.00	0.00	0.47	0.47	0.00	0.11	0.11	—	347	347	< 0.005	< 0.005	0.02	348	0.00	0.00	0.00	0.00	0.00	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

4. Operations Emissions Details

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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)

[illegible]

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)

[illegible]

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)

[illegible]

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2032	3/4/2032	6.00	55.0	—
Site Preparation	Site Preparation	3/5/2032	9/13/2032	6.00	165	—
Grading	Grading	9/14/2032	1/6/2034	6.00	412	—
Building Construction	Building Construction	1/7/2034	1/3/2047	6.00	4,067	—
Paving	Paving	1/4/2047	12/22/2047	6.00	302	—
Architectural Coating	Architectural Coating	12/23/2047	12/8/2048	6.00	302	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
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	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
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
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Back	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	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
Demolition	—	—	—	—
Demolition	Worker	15.0	11.9	LDA,LDT1,LDT2
Demolition	Vendor	—	9.10	HHDT,MHDT
Demolition	Hauling	8.73	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,910	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	472	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	382	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	11.9	LDA,LDT1,LDT2
Demolition	Vendor	—	9.10	HHDT,MHDT
Demolition	Hauling	8.73	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—

Site Preparation	Worker	17.5	11.9	LDA,LDT1,LDT2
Site Preparation	Vendor	—	9.10	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	11.9	LDA,LDT1,LDT2
Grading	Vendor	—	9.10	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	1,910	11.9	LDA,LDT1,LDT2
Building Construction	Vendor	472	9.10	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	11.9	LDA,LDT1,LDT2
Paving	Vendor	—	9.10	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	382	11.9	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	9.10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	3,110,400	1,036,800	2,232,286	743,398	71,613

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	41,713	—
Site Preparation	—	—	248	0.00	—
Grading	—	—	1,236	0.00	—
Paving	0.00	0.00	0.00	0.00	27.4

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
Office Park	0.00	0%
Strip Mall	0.00	0%
Parking Lot	7.70	100%
University/College (4yr)	0.00	0%
Apartments Mid Rise	—	0%
Other Asphalt Surfaces	7.70	100%
Unenclosed Parking with Elevator	1.60	100%
Other Non-Asphalt Surfaces	10.4	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2032	0.00	204	0.03	< 0.005
2033	0.00	204	0.03	< 0.005
2034	0.00	204	0.03	< 0.005
2035	0.00	204	0.03	< 0.005
2036	0.00	204	0.03	< 0.005
2037	0.00	204	0.03	< 0.005
2038	0.00	204	0.03	< 0.005
2039	0.00	204	0.03	< 0.005
2040	0.00	204	0.03	< 0.005
2041	0.00	204	0.03	< 0.005
2042	0.00	204	0.03	< 0.005
2043	0.00	204	0.03	< 0.005
2044	0.00	204	0.03	< 0.005
2045	0.00	204	0.03	< 0.005
2046	0.00	204	0.03	< 0.005
2047	0.00	204	0.03	< 0.005
2048	0.00	204	0.03	< 0.005

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2

110 / 115

Extreme Precipitation	N/A	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A	N/A
Flooding	1	1		1	2
Drought	1	1		1	2
Snowpack Reduction	N/A	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	61.0				
AQ-PM	26.8				
AQ-DPM	15.7				
Drinking Water	60.1				
Lead Risk Housing	17.3				
Pesticides	83.8				
Toxic Releases	18.1				
Traffic	25.4				
Effect Indicators	—				

CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—

Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5

Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—

2016 Voting	72.2
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7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Healthy 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
Land Use	Land uses are based on Project-specific information.
Construction: Construction Phases	Project-specific schedule.

Pacific Gateway (Initial Phase Operation - Auto) Detailed Report

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5.9. Operational Mobile Sources

5.9.1. Unmitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Initial Phase Operation - Auto)
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	11.5	1000sqft	0.50	11,500	0.00	—	—	—

Other Non-Asphalt Surfaces	1,071	1000sqft	24.6	0.00	0.00	—	—	—
Parking Lot	1,039	1000sqft	24.6	0.00	34,549	—	—	—
University/College (4yr)	400	Student	4.00	25,000	141,239	141,239	—	—
Industrial Park	3,962	1000sqft	82.2	3,962,000	1,296,227	—	—	—
Government Office Building	113	1000sqft	2.60	113,100	0.00	—	—	—
Other Asphalt Surfaces	2,917	1000sqft	67.0	0.00	0.00	—	—	—
City Park	20.3	Acre	20.3	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	116	110	54.2	569	1.44	3.38	128	132	3.26	32.5	35.8	4,555	173,173	177,727	473	7.92	1,273	193,177
Mit.	80.8	77.5	52.7	390	1.43	3.06	128	131	3.02	32.5	35.5	4,555	172,443	176,998	473	7.91	1,273	192,446
% Reduced	30%	30%	3%	31%	1%	9%	—	< 0.5%	7%	—	1%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	83.7	80.4	56.9	284	1.33	3.06	128	131	3.02	32.5	35.5	4,555	161,588	166,143	473	8.24	1,038	181,455	181,455
Mit.	80.1	76.9	56.9	284	1.33	3.06	128	131	3.02	32.5	35.5	4,555	161,588	166,143	473	8.24	1,038	181,455	181,455
% Reduced	4%	4%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	99.4	94.9	55.8	392	1.36	3.22	128	131	3.14	32.4	35.5	4,555	164,522	169,077	473	8.10	1,136	184,444	184,444
Mit.	80.1	76.8	55.0	304	1.35	3.06	128	131	3.02	32.4	35.4	4,555	164,163	168,717	473	8.09	1,136	184,083	184,083
% Reduced	19%	19%	1%	23%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.1	17.3	10.2	71.5	0.25	0.59	23.3	23.9	0.57	5.91	6.48	754	27,239	27,993	78.3	1.34	188	30,537	30,537
Mit.	14.6	14.0	10.0	55.4	0.25	0.56	23.3	23.8	0.55	5.91	6.46	754	27,179	27,933	78.3	1.34	188	30,477	30,477
% Reduced	19%	19%	1%	23%	< 0.5%	5%	—	< 0.5%	4%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%	< 0.5%

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	14.0	12.4	20.7	363	1.24	0.64	128	129	0.60	32.5	33.1	—	125,775	125,775	1.28	2.46	242	126,781
Area	98.7	96.2	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Pacific Gateway (Initial Phase Operation - Auto) Detailed Report, 2/7/2025

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	116	110	54.2	569	1.44	3.38	128	132	3.26	32.5	35.8	4,555	173,173	177,727	473	7.92	1,273	193,177
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	11.8	25.0	257	1.13	0.64	128	129	0.60	32.5	33.1	—	114,926	114,926	1.37	2.79	6.26	115,797
Area	66.9	66.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
Total	83.7	80.4	56.9	284	1.33	3.06	128	131	3.02	32.5	35.5	4,555	161,588	166,143	473	8.24	1,038	181,455
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	11.8	23.1	277	1.16	0.64	128	128	0.60	32.4	33.0	—	117,497	117,497	1.31	2.64	104	118,422
Area	82.6	81.4	0.74	88.2	0.01	0.16	—	0.16	0.12	—	0.12	—	363	363	0.02	< 0.005	—	364
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
Total	99.4	94.9	55.8	392	1.36	3.22	128	131	3.14	32.4	35.5	4,555	164,522	169,077	473	8.10	1,136	184,444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.42	2.15	4.22	50.5	0.21	0.12	23.3	23.4	0.11	5.91	6.02	—	19,453	19,453	0.22	0.44	17.3	19,606
Area	15.1	14.8	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3
Energy	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	—	0.44	—	7,025	7,025	1.85	0.17	—	7,122

[illegible]

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	14.0	12.4	20.7	363	1.24	0.64	128	129	0.60	32.5	33.1	—	125,775	125,775	1.28	2.46	242	126,781
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,439	42,439	11.2	1.02	—	43,024
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
Total	80.8	77.5	52.7	390	1.43	3.06	128	131	3.02	32.5	35.5	4,555	172,443	176,998	473	7.91	1,273	192,446
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	11.8	25.0	257	1.13	0.64	128	129	0.60	32.5	33.1	—	114,926	114,926	1.37	2.79	6.26	115,797
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	80.1	76.9	56.9	284	1.33	3.06	128	131	3.02	32.5	35.5	4,555	161,588	166,143	473	8.24	1,038	181,455	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	11.8	23.1	277	1.16	0.64	128	128	0.60	32.4	33.0	—	117,497	117,497	1.31	2.64	104	118,422	—
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,436	42,436	11.2	1.02	—	43,021	—
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913	—
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623	—
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073	—
Total	80.1	76.8	55.0	304	1.35	3.06	128	131	3.02	32.4	35.4	4,555	164,163	168,717	473	8.09	1,136	184,083	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.42	2.15	4.22	50.5	0.21	0.12	23.3	23.4	0.11	5.91	6.02	—	19,453	19,453	0.22	0.44	17.3	19,606	—
Area	11.6	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	—	0.44	—	7,026	7,026	1.86	0.17	—	7,123	—
Water	—	—	—	—	—	—	—	—	—	—	—	299	25.8	325	30.7	0.73	—	1,310	—
Waste	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593	—
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	674	674	—	—	—	674	—
Total	14.6	14.0	10.0	55.4	0.25	0.56	23.3	23.8	0.55	5.91	6.46	754	27,179	27,933	78.3	1.34	188	30,477	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.67	0.63	0.52	8.34	0.03	0.01	2.61	2.63	0.01	0.66	0.68	—	2,597	2,597	0.05	0.06	4.93	2,622
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	1.34	1.25	1.27	21.0	0.07	0.04	6.90	6.94	0.03	1.75	1.79	—	6,826	6,826	0.10	0.15	13.0	6,887
Industrial Park	11.9	10.6	18.9	334	1.15	0.59	119	119	0.55	30.1	30.7	—	116,351	116,351	1.13	2.24	224	117,272
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	14.0	12.4	20.7	363	1.24	0.64	128	129	0.60	32.5	33.1	—	125,775	125,775	1.28	2.46	242	126,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	0.64	0.60	0.63	6.62	0.02	0.01	2.61	2.63	0.01	0.66	0.68	—	2,377	2,377	0.06	0.07	0.13	2,400
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	1.29	1.19	1.53	16.0	0.06	0.04	6.90	6.94	0.03	1.75	1.79	—	6,243	6,243	0.12	0.17	0.34	6,298
Industrial Park	11.4	10.0	22.8	235	1.05	0.59	119	119	0.55	30.1	30.7	—	106,306	106,306	1.19	2.54	5.80	107,099
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	13.3	11.8	25.0	257	1.13	0.64	128	129	0.60	32.5	33.1	—	114,926	114,926	1.37	2.79	6.26	115,797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.12	0.11	0.11	1.24	< 0.005	< 0.005	0.47	0.48	< 0.005	0.12	0.12	—	402	402	0.01	0.01	0.35	406
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

University/College (4yr)	0.23	0.22	0.26	3.04	0.01	0.01	1.25	1.26	0.01	0.32	0.32	—	1,056	1,056	0.02	0.03	0.93	1,066
Industrial Park	2.07	1.83	3.86	46.2	0.20	0.11	21.6	21.7	0.10	5.47	5.57	—	17,994	17,994	0.19	0.40	16.0	18,134
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	2.42	2.15	4.22	50.5	0.21	0.12	23.3	23.4	0.11	5.91	6.02	—	19,453	19,453	0.22	0.44	17.3	19,606

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.67	0.63	0.52	8.34	0.03	0.01	2.61	2.63	0.01	0.66	0.68	—	2,597	2,597	0.05	0.06	4.93	2,622
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

University/College (4yr)	1.34	1.25	1.27	21.0	0.07	0.04	6.90	6.94	0.03	1.75	1.79	—	6,826	6,826	0.10	0.15	13.0	6,887
Industry/Plant/Port	11.9	10.6	18.9	334	1.15	0.59	119	119	0.55	30.1	30.7	—	116,351	116,351	1.13	2.24	224	117,272
Government/Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	14.0	12.4	20.7	363	1.24	0.64	128	129	0.60	32.5	33.1	—	125,775	125,775	1.28	2.46	242	126,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.64	0.60	0.63	6.62	0.02	0.01	2.61	2.63	0.01	0.66	0.68	—	2,377	2,377	0.06	0.07	0.13	2,400
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	1.29	1.19	1.53	16.0	0.06	0.04	6.90	6.94	0.03	1.75	1.79	—	6,243	6,243	0.12	0.17	0.34	6,298
Industry/Plant/Port	11.4	10.0	22.8	235	1.05	0.59	119	119	0.55	30.1	30.7	—	106,306	106,306	1.19	2.54	5.80	107,099

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	0.02	< 0.005	—	13.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47.1	47.1	0.08	0.01	—	52.3
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	7.33	7.33	0.01	< 0.005	—	8.14
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,157	4,157	7.50	0.91	—	4,616
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	119	119	0.21	0.03	—	132
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,343	4,343	7.83	0.95	—	4,821

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	1.21	1.21	< 0.005	< 0.005	—	1.35
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	688	688	1.24	0.15	—	764
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	19.6	19.6	0.04	< 0.005	—	21.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	719	719	1.30	0.16	—	798

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	0.02	< 0.005	—	13.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47.1	47.1	0.08	0.01	—	52.3
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	7.37	7.37	0.01	< 0.005	—	8.18

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	4,343	4,343	7.83	0.95	4,821
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	< 0.005	< 0.005	2.22
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	7.79	7.79	0.01	< 0.005	8.65
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22	< 0.005	< 0.005	1.35
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	689	689	1.24	0.15	765
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	19.7	19.7	0.04	< 0.005	21.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	719	719	1.30	0.16	799

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
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Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	282
Industrial Park	3.38	1.69	30.7	25.8	0.18	2.33	2.33	2.33	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,758
Government Office Building	0.10	0.05	0.88	0.74	0.01	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,049
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
Total	3.51	1.76	31.9	26.8	0.19	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	38,196
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.7
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	46.7
Industrial Park	0.62	0.31	5.61	4.71	0.03	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	6,086

Govern ment Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	—	0.01	—	173	0.02	< 0.005	—	174
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	—	0.00
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
Total	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	—	0.44	—	6,306	0.56	0.01	—	6,324

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Other Non-Asphalt Surfaces	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
Parking Lot	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
Universit y/Colleg e (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Industria l Park	3.38	1.69	30.7	25.8	0.18	2.33	—	2.33	2.33	—	2.33	—	36,657	36,657	3.24	0.07	—	36,758

Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Other Asphalt Surfaces	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
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
Total	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	—	2.43	—	38,091	38,091	3.37	0.07	—	38,196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Other Non-Asphalt Surfaces	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
Parking Lot	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
Universit y/Colleg e (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Industria l Park	3.38	1.69	30.7	25.8	0.18	2.33	—	2.33	—	2.33	—	36,657	36,657	3.24	0.07	—	36,758
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Other Asphalt Surfaces	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
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

Total	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	—	2.43	—	38,091	38,091	3.37	0.07	—	38,196
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Other Non-Asphalt Surfaces	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
Parking Lot	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
University/College (4yr)	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	46.5	46.5	< 0.005	< 0.005	—	46.7
Industrial Park	0.62	0.31	5.61	4.71	0.03	0.43	—	0.43	0.43	0.43	—	6,069	6,069	0.54	0.01	—	6,086
Government Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	0.01	—	173	173	0.02	< 0.005	—	174
Other Asphalt Surfaces	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
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
Total	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	0.44	—	6,306	6,306	0.56	0.01	—	6,324

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
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Landscape	2.87	2.65	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3
Total	15.1	14.8	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.2	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	7,699
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.06	0.70	0.07	< 0.005	—	2.84

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	< 0.005	< 0.005	—	—	0.01
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.03	0.36	0.03	—	1.26
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	291	25.1	29.9	316	0.71	—	1,275
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.61	0.73	7.74	0.02	—	31.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	299	25.8	30.7	325	0.73	—	1,310

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	< 0.005	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	—	—	7,699
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	—	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	—	—	7,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	—	—	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	< 0.005	—	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	< 0.005	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	—	—	7,699

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.06	0.70	0.07	< 0.005	—	2.84
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.61	7.74	0.73	0.02	—	31.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	299	25.8	325	30.7	0.73	—	1,310

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,648	0.00	2,648	265	0.00	—	9,264
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	56.7	0.00	56.7	5.67	0.00	—	198
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.29
Total	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	6.51	0.00	6.51	0.65	0.00	—	22.8
Industria Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	438	0.00	438	43.8	0.00	—	1,534
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	9.39	0.00	9.39	0.94	0.00	—	32.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.00	0.16	0.02	0.00	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	455	0.00	455	45.5	0.00	—	1,593

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.29
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	0.00	6.51	0.65	0.00	—	22.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	438	0.00	438	43.8	0.00	—	1,534
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.00	0.16	0.02	0.00	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,031	1,031
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,031	1,031

Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

University/College	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipm 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Croplan d	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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)

[illegible]

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00

[illegible]

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)

[illegible]

Broadleaf	—	—	—	—	—	—	—	—	—	—	—	504	504	—	—	504
Grassland	—	—	—	—	—	—	—	—	—	—	—	-15.0	-15.0	—	—	-15.0
Urban	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	489	489	—	—	489

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

[illegible]

City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	330	330	330	120,450	3,696	3,696	3,696	1,349,040
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	622	622	622	227,030	9,765	9,765	9,765	3,564,226
Industrial Park	4,240	4,240	4,240	1,547,605	167,773	167,773	167,773	61,237,072
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	6,167,400	2,055,800	303,700

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)
General Office Building	240,687	18.3	0.0330	0.0040	331,994
Other Non-Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
Parking Lot	938,701	18.3	0.0330	0.0040	0.00
University/College (4yr)	146,225	18.3	0.0330	0.0040	877,271
Industrial Park	82,922,031	18.3	0.0330	0.0040	114,379,059
Government Office Building	2,367,108	18.3	0.0330	0.0040	3,265,086
Other Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
City Park	0.00	18.3	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
----------	----------------------	-----	-----	-----	-----------------------

General Office Building	240,687	18.3	0.0330	0.0040	331,994
Other Non-Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
Parking Lot	938,701	18.3	0.0330	0.0040	0.00
University/College (4yr)	146,225	18.3	0.0330	0.0040	877,271
Industrial Park	82,922,031	18.3	0.0330	0.0040	114,379,059
Government Office Building	2,367,108	18.3	0.0330	0.0040	3,265,086
Other Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
City Park	0.00	18.3	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)		Outdoor Water (gal/year)	
General Office Building	2,043,938		0.00	
Other Non-Asphalt Surfaces	0.00		0.00	
Parking Lot	0.00		484,932	
University/College (4yr)	856,440		4,405,419	
Industrial Park	916,212,500		18,193,914	
Government Office Building	22,468,410		0.00	
Other Asphalt Surfaces	0.00		0.00	
City Park	0.00		0.00	

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)		Outdoor Water (gal/year)	
General Office Building	2,043,938		0.00	
Other Non-Asphalt Surfaces	0.00		0.00	
Parking Lot	0.00		484,932	
University/College (4yr)	856,440		4,405,419	

Industrial Park	916,212,500	18,193,914
Government Office Building	22,468,410	0.00
Other Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
University/College (4yr)	73.0	—
Industrial Park	4,913	—
Government Office Building	105	—
Other Asphalt Surfaces	0.00	—
City Park	1.75	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
University/College (4yr)	73.0	—
Industrial Park	4,913	—
Government Office Building	105	—
Other Asphalt Surfaces	0.00	—
City Park	1.75	—

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
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
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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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
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

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
Cropland	Inceptisols	226	0.00
Urban	Inceptisols	0.00	226

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Cropland	Inceptisols	226	0.00
Urban	Inceptisols	0.00	226

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	226	0.00
Grassland	0.00	34.0
Urban	0.00	192

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	226	0.00
Grassland	0.00	34.0
Urban	0.00	192

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3

Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—

Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0

Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8

Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	2032 RPS
Land Use	Land uses are based on Project-specific information.
Operations: Vehicle Data	Project trip lengths and rates derived from traffic study conducted by Fehr & Peers.

Operations: Fleet Mix	Fleet mix is based on auto-specific vehicle types.
Operations: Energy Use	—
Operations: Refrigerants	Refrigerant usage for Industrial Park based on Project-specific data.
Operations: Consumer Products	Refined consumer product emission factor based on San Joaquin County-specific consumer product usage and population projections.

Pacific Gateway (Initial Phase Operation - Truck) Detailed Report

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4.6.1. Unmitigated

4.6.2. Mitigated

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4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

- 5.15.1. Unmitigated
- 5.15.2. Mitigated
- 5.16. Stationary Sources
- 5.16.1. Emergency Generators and Fire Pumps
- 5.16.2. Process Boilers
- 5.17. User Defined
- 5.18. Vegetation
- 5.18.1. Land Use Change
- 5.18.1.1. Unmitigated
- 5.18.1.2. Mitigated
- 5.18.1. Biomass Cover Type
- 5.18.1.1. Unmitigated
- 5.18.1.2. Mitigated
- 5.18.2. Sequestration
- 5.18.2.1. Unmitigated
- 5.18.2.2. Mitigated
- 6. Climate Risk Detailed Report
- 6.1. Climate Risk Summary

- 6.2. Initial Climate Risk Scores
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- 7. Health and Equity Details
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 - 7.2. Healthy Places Index Scores
 - 7.3. Overall Health & Equity Scores
 - 7.4. Health & Equity Measures
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 - 7.6. Health & Equity Custom Measures
- 8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Initial Phase Operation - Truck)
Operational Year	2032
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	11.5	1000sqft	0.50	11,500	0.00	—	—	—

Other Non-Asphalt Surfaces	1,071	1000sqft	24.6	0.00	0.00	—	—	—
Parking Lot	1,039	1000sqft	24.6	0.00	34,549	—	—	—
University/College (4yr)	400	Student	4.00	25,000	141,239	141,239	—	—
Industrial Park	3,962	1000sqft	82.2	3,962,000	1,296,227	—	—	—
Government Office Building	113	1000sqft	2.60	113,100	0.00	—	—	—
Other Asphalt Surfaces	2,917	1000sqft	67.0	0.00	0.00	—	—	—
City Park	20.3	Acre	20.3	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	109	101	270	251	2.27	7.05	69.9	77.0	6.78	18.8	25.6	4,555	268,626	273,180	475	40.4	1,432	298,525
Mit.	73.6	68.4	269	72.5	2.26	6.73	69.9	76.7	6.54	18.8	25.4	4,555	267,896	272,451	474	40.4	1,432	297,794
% Reduced	32%	33%	1%	71%	< 0.5%	5%	—	< 0.5%	4%	—	1%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	76.9	71.8	285	73.1	2.26	6.73	69.9	76.7	6.55	18.8	25.4	4,555	267,965	272,520	474	40.4	1,094	297,527		
Mit.	73.4	68.2	285	73.1	2.26	6.73	69.9	76.7	6.55	18.8	25.4	4,555	267,965	272,520	474	40.4	1,094	297,527		
% Reduced	5%	5%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Unmit.	92.8	86.4	280	161	2.27	6.89	69.7	76.6	6.66	18.8	25.4	4,555	268,284	272,839	474	40.4	1,234	297,987		
Mit.	73.5	68.3	280	72.7	2.26	6.73	69.7	76.4	6.55	18.8	25.3	4,555	267,925	272,479	474	40.4	1,234	297,626		
% Reduced	21%	21%	< 0.5%	55%	< 0.5%	2%	—	< 0.5%	2%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%		
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Unmit.	16.9	15.8	51.2	29.4	0.41	1.26	12.7	14.0	1.22	3.42	4.64	754	44,418	45,172	78.6	6.70	204	49,335		
Mit.	13.4	12.5	51.0	13.3	0.41	1.23	12.7	14.0	1.19	3.42	4.62	754	44,358	45,112	78.6	6.69	204	49,275		
% Reduced	21%	21%	< 0.5%	55%	< 0.5%	2%	—	< 0.5%	2%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%		

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	6.77	3.35	237	45.6	2.07	4.30	69.9	74.2	4.12	18.8	22.9	—	221,228	221,228	3.09	35.0	347	232,076
Area	98.7	96.2	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Pacific Gateway (Initial Phase Operation - Truck) Detailed Report, 2/7/2025

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	109	101	270	251	2.27	7.05	69.9	77.0	6.78	18.8	25.6	4,555	268,626	273,180	475	40.4	1,432	298,525	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mobile	6.57	3.17	253	46.2	2.07	4.31	69.9	74.2	4.12	18.8	22.9	—	221,303	221,303	3.08	35.0	9.00	231,817	
Area	66.9	66.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018	
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913	
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085	
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073	
Total	76.9	71.8	285	73.1	2.26	6.73	69.9	76.7	6.55	18.8	25.4	4,555	267,965	272,520	474	40.4	1,094	297,527	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mobile	6.68	3.28	248	45.9	2.07	4.31	69.7	74.0	4.12	18.8	22.9	—	221,259	221,259	3.09	35.0	150	231,912	
Area	82.6	81.4	0.74	88.2	0.01	0.16	—	0.16	0.12	—	0.12	—	363	363	0.02	< 0.005	—	364	
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018	
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913	
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085	
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073	
Total	92.8	86.4	280	161	2.27	6.89	69.7	76.6	6.66	18.8	25.4	4,555	268,284	272,839	474	40.4	1,234	297,987	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mobile	1.22	0.60	45.2	8.37	0.38	0.79	12.7	13.5	0.75	3.42	4.17	—	36,632	36,632	0.51	5.79	24.8	38,396	
Area	15.1	14.8	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3	
Energy	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	—	0.44	—	7,025	7,025	1.85	0.17	—	7,122	

Water	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Waste	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	16.9	15.8	51.2	29.4	0.41	1.26	12.7	14.0	1.22	3.42	4.64	754	44,418	45,172	78.6	6.70	204	49,335	

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	6.77	3.35	237	45.6	2.07	4.30	69.9	74.2	4.12	18.8	22.9	—	221,228	221,228	3.09	35.0	347	232,076
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,439	42,439	11.2	1.02	—	43,024
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
Total	73.6	68.4	269	72.5	2.26	6.73	69.9	76.7	6.54	18.8	25.4	4,555	267,896	272,451	474	40.4	1,432	297,794
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.57	3.17	253	46.2	2.07	4.31	69.9	74.2	4.12	18.8	22.9	—	221,303	221,303	3.08	35.0	9.00	231,817
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,433	42,433	11.2	1.02	—	43,018
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	73.4	68.2	285	73.1	2.26	6.73	69.9	76.7	6.55	18.8	25.4	4,555	267,965	272,520	474	40.4	1,094	297,527	
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.68	3.28	248	45.9	2.07	4.31	69.7	74.0	4.12	18.8	22.9	—	221,259	221,259	3.09	35.0	150	231,912	
Area	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	2.43	—	2.43	—	42,436	42,436	11.2	1.02	—	43,021	
Water	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913	
Waste	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085	
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073	
Total	73.5	68.3	280	72.7	2.26	6.73	69.7	76.4	6.55	18.8	25.3	4,555	267,925	272,479	474	40.4	1,234	297,626	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.22	0.60	45.2	8.37	0.38	0.79	12.7	13.5	0.75	3.42	4.17	—	36,632	36,632	0.51	5.79	24.8	38,396	
Area	11.6	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	—	0.44	—	7,026	7,026	1.86	0.17	—	7,123	
Water	—	—	—	—	—	—	—	—	—	—	—	299	25.8	325	30.7	0.73	—	1,310	
Waste	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593	
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	180	
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	674	674	—	—	—	674	
Total	13.4	12.5	51.0	13.3	0.41	1.23	12.7	14.0	1.19	3.42	4.62	754	44,358	45,112	78.6	6.69	204	49,275	

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	0.01	< 0.005	0.27	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	248	248	< 0.005	0.04	0.39	260
Industrial Park	6.76	3.35	237	45.6	2.07	4.30	69.9	74.2	4.11	18.8	22.9	—	220,980	220,980	3.09	34.9	347	231,816
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	6.77	3.35	237	45.6	2.07	4.30	69.9	74.2	4.12	18.8	22.9	—	221,228	221,228	3.09	35.0	347	232,076
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

University/College (4yr)	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	41.1	41.1	< 0.005	0.01	0.03	43.0
Industrial Park	1.22	0.60	45.2	8.37	0.38	0.78	12.7	13.5	0.75	3.42	4.17	—	36,591	36,591	0.51	5.79	24.8	38,353
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00
Total	1.22	0.60	45.2	8.37	0.38	0.79	12.7	13.5	0.75	3.42	4.17	—	36,632	36,632	0.51	5.79	24.8	38,396

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

University/College (4yr)	0.01	< 0.005	0.27	0.05	< 0.005	< 0.005	0.08	0.08	0.08	< 0.005	0.02	0.03	—	248	248	< 0.005	0.04	0.39	260
Industry/Industrial Park	6.76	3.35	237	45.6	2.07	4.30	69.9	74.2	4.11	18.8	22.9	—	—	220,980	220,980	3.09	34.9	347	231,816
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00
Total	6.77	3.35	237	45.6	2.07	4.30	69.9	74.2	4.12	18.8	22.9	—	—	221,228	221,228	3.09	35.0	347	232,076
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	0.01	< 0.005	0.28	0.05	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	—	248	248	< 0.005	0.04	0.01	260
Industry/Industrial Park	6.56	3.17	252	46.2	2.07	4.30	69.9	74.2	4.12	18.8	22.9	—	—	221,055	221,055	3.08	35.0	8.99	231,557

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	0.02	< 0.005	—	13.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47.1	47.1	0.08	0.01	—	52.3
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	7.33	7.33	0.01	< 0.005	—	8.14
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,157	4,157	7.50	0.91	—	4,616
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	119	119	0.21	0.03	—	132
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,343	4,343	7.83	0.95	—	4,821

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.21	1.21	< 0.005	< 0.005	—	1.35
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688	1.24	0.15	—	764
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	19.6	19.6	0.04	< 0.005	—	21.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	719	719	1.30	0.16	—	798

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	12.1	12.1	0.02	< 0.005	—	13.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	47.1	47.1	0.08	0.01	—	52.3
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	7.37	7.37	0.01	< 0.005	—	8.18

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00	
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	4,343	4,343	7.83	0.95	—	4,821
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	< 0.005	< 0.005	—	2.22
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	7.79	7.79	0.01	< 0.005	—	8.65
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22	< 0.005	< 0.005	—	1.35
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	689	689	1.24	0.15	—	765
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	19.7	19.7	0.04	< 0.005	—	21.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	719	719	1.30	0.16	—	799

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
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Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	282
Industrial Park	3.38	1.69	30.7	25.8	0.18	2.33	2.33	2.33	2.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36,758
Government Office Building	0.10	0.05	0.88	0.74	0.01	0.07	0.07	0.07	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,049
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00
Total	3.51	1.76	31.9	26.8	0.19	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	38,196
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.7
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	46.7
Industrial Park	0.62	0.31	5.61	4.71	0.03	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	6,086

Govern ment Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	—	0.01	—	173	0.02	< 0.005	—	174
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	—	0.00	0.00	0.00	—	0.00
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
Total	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	—	0.44	—	6,306	0.56	0.01	—	6,324

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Other Non-Asphalt Surfaces	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
Parking Lot	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
Universit y/Colleg e (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Industria l Park	3.38	1.69	30.7	25.8	0.18	2.33	—	2.33	2.33	—	2.33	—	36,657	36,657	3.24	0.07	—	36,758

Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Other Asphalt Surfaces	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
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
Total	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	—	2.43	—	38,091	38,091	3.37	0.07	—	38,196
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Other Non-Asphalt Surfaces	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
Parking Lot	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
Universit y/Colleg e (4yr)	0.03	0.01	0.24	0.20	< 0.005	0.02	—	0.02	—	0.02	—	281	281	0.02	< 0.005	—	282
Industria l Park	3.38	1.69	30.7	25.8	0.18	2.33	—	2.33	—	2.33	—	36,657	36,657	3.24	0.07	—	36,758
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Other Asphalt Surfaces	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
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

Total	3.51	1.76	31.9	26.8	0.19	2.43	—	2.43	—	2.43	—	38,091	38,091	3.37	0.07	—	38,196
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Other Non-Asphalt Surfaces	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
Parking Lot	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
University/College (4yr)	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	46.5	46.5	< 0.005	< 0.005	—	46.7
Industrial Park	0.62	0.31	5.61	4.71	0.03	0.43	—	0.43	0.43	0.43	—	6,069	6,069	0.54	0.01	—	6,086
Government Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	0.01	—	173	173	0.02	< 0.005	—	174
Other Asphalt Surfaces	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
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
Total	0.64	0.32	5.83	4.89	0.03	0.44	—	0.44	0.44	0.44	—	6,306	6,306	0.56	0.01	—	6,324

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
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[illegible]

Landscape	2.87	2.65	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3
Total	15.1	14.8	0.14	16.1	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.0	60.0	< 0.005	< 0.005	—	60.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.06	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	63.3	63.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.2	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	7,699
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	7,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	7,699
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	7,913
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.06	0.70	0.07	< 0.005	2.84

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	< 0.005	< 0.005	—	—	0.01
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.03	0.36	—	—	1.26
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	291	25.1	29.9	316	0.71	—	1,275
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.61	0.73	7.74	0.02	—	31.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	299	25.8	30.7	325	0.73	—	1,310

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	—	17.2	
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	0.00	

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	< 0.005	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	—	—	7,699
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	—	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	—	—	7,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	3.92	0.33	4.25	0.40	0.01	—	—	—	17.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	—	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.04	0.04	< 0.005	< 0.005	< 0.005	—	—	0.05
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	0.52	2.17	0.17	< 0.005	< 0.005	< 0.005	—	7.62
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,756	151	1,907	180	4.31	—	—	—	7,699

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	—	43.1	3.67	46.7	4.42	0.11	—	189
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,804	156	1,960	185	4.43	—	7,913
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.06	0.70	0.07	< 0.005	—	2.84
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	< 0.005	< 0.005	—	0.01
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.61	7.74	0.73	0.02	—	31.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	299	25.8	325	30.7	0.73	—	1,310

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,648	0.00	2,648	265	0.00	—	9,264
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	56.7	0.00	56.7	5.67	0.00	—	198
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.29
Total	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	6.51	0.00	6.51	0.65	0.00	—	22.8
Industria Park	—	—	—	—	—	—	—	—	—	—	—	—	438	0.00	438	43.8	0.00	—	1,534
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.00	0.16	0.02	0.00	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.29
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,750	0.00	2,750	275	0.00	—	9,623
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	6.51	0.00	6.51	0.65	0.00	—	22.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	438	0.00	438	43.8	0.00	—	1,534
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.00	0.16	0.02	0.00	—	0.54
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,084	1,084
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,084	1,084

Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	179	179
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	180

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

University/College	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	179	179
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	180

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 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Croplan d	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	504	504	—	—	504
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-15.0	-15.0	—	—	-15.0
Urban	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	489	489	—	—	489

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)

[illegible]

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00

[illegible]

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)

[illegible]

Broadleaf	—	—	—	—	—	—	—	—	—	—	—	—	—	504	504	—	—	504
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	—	-15.0	-15.0	—	—	-15.0
Urban	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	489	489	—	—	489

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

[illegible]

City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
University/College (4yr)	2.00	2.00	2.00	730	85.8	85.8	85.8	31,317
Industrial Park	1,782	1,782	1,782	650,426	76,447	76,447	76,447	27,903,271
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
0	0.00	6,167,400	2,055,800	303,700

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)
General Office Building	240,687	18.3	0.0330	0.0040	331,994
Other Non-Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
Parking Lot	938,701	18.3	0.0330	0.0040	0.00
University/College (4yr)	146,225	18.3	0.0330	0.0040	877,271
Industrial Park	82,922,031	18.3	0.0330	0.0040	114,379,059
Government Office Building	2,367,108	18.3	0.0330	0.0040	3,265,086
Other Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
City Park	0.00	18.3	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
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General Office Building	240,687	18.3	0.0330	0.0040	331,994
Other Non-Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
Parking Lot	938,701	18.3	0.0330	0.0040	0.00
University/College (4yr)	146,225	18.3	0.0330	0.0040	877,271
Industrial Park	82,922,031	18.3	0.0330	0.0040	114,379,059
Government Office Building	2,367,108	18.3	0.0330	0.0040	3,265,086
Other Asphalt Surfaces	0.00	18.3	0.0330	0.0040	0.00
City Park	0.00	18.3	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)		Outdoor Water (gal/year)	
General Office Building	2,043,938		0.00	
Other Non-Asphalt Surfaces	0.00		0.00	
Parking Lot	0.00		484,932	
University/College (4yr)	856,440		4,405,419	
Industrial Park	916,212,500		18,193,914	
Government Office Building	22,468,410		0.00	
Other Asphalt Surfaces	0.00		0.00	
City Park	0.00		0.00	

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)		Outdoor Water (gal/year)	
General Office Building	2,043,938		0.00	
Other Non-Asphalt Surfaces	0.00		0.00	
Parking Lot	0.00		484,932	
University/College (4yr)	856,440		4,405,419	

Industrial Park	916,212,500	18,193,914
Government Office Building	22,468,410	0.00
Other Asphalt Surfaces	0.00	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
University/College (4yr)	73.0	—
Industrial Park	4,913	—
Government Office Building	105	—
Other Asphalt Surfaces	0.00	—
City Park	1.75	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—
University/College (4yr)	73.0	—
Industrial Park	4,913	—
Government Office Building	105	—
Other Asphalt Surfaces	0.00	—
City Park	1.75	—

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
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
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

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
Cropland	Inceptisols	226	0.00
Urban	Inceptisols	0.00	226

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Cropland	Inceptisols	226	0.00

Urban	Inceptisols	0.00	226
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	226	0.00
Grassland	0.00	34.0
Urban	0.00	192

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	226	0.00
Grassland	0.00	34.0
Urban	0.00	192

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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 $\frac{3}{4}$ 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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1

Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—
Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689

Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632
Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9

Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	2032 RPS
Land Use	Land uses are based on Project-specific information.

Operations: Vehicle Data	Project trip lengths and rates derived from traffic study conducted by Fehr & Peers.
Operations: Fleet Mix	Fleet mix is based on truck-specific vehicle types.
Operations: Energy Use	—
Operations: Refrigerants	Refrigerant usage for Industrial Park based on Project-specific data.
Operations: Consumer Products	Refined consumer product emission factor based on San Joaquin County-specific consumer product usage and population projections.

Pacific Gateway (Project Operation - Auto) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Project Operation - Auto)
Operational Year	2050
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	11.5	1000sqft	0.50	11,500	0.00	—	—	—

Government Office Building	113	1000sqft	2.60	113,100	0.00	—	—	—
Industrial Park	24,675	1000sqft	705	24,675,000	5,994,592	—	—	—
Parking Lot	6,685	1000sqft	154	0.00	34,549	—	—	—
City Park	197	Acre	197	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	15,155	1000sqft	348	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	4,959	1000sqft	114	0.00	0.00	—	—	—
Office Park	93.0	1000sqft	2.70	93,000	25,225	—	—	—
University/College (4yr)	5,000	Student	39.8	1,379,200	1,268,091	1,268,091	—	—
Apartments Mid Rise	1,600	Dwelling Unit	4.80	1,536,000	0.00	—	5,168	—
Unenclosed Parking with Elevator	874	Space	1.60	349,600	0.00	—	—	—
Hotel	120	Room	0.60	60,000	15,554	—	—	—
Gasoline/Service Station	8.00	Pump	0.60	20,000	7,402	—	—	—
Convenience Market (24 hour)	8.00	1000sqft	0.70	8,000	21,113	—	—	—
Fast Food Restaurant with Drive Thru	13.6	1000sqft	1.20	13,600	35,892	—	—	—
High Turnover (Sit Down Restaurant)	14.0	1000sqft	1.20	14,000	36,948	—	—	—
Fast Food Restaurant w/o Drive Thru	4.00	1000sqft	0.30	4,000	10,556	—	—	—
Bank (with Drive-Through)	5.00	1000sqft	0.40	5,000	13,196	—	—	—
Strip Mall	43.9	1000sqft	2.20	43,900	52,991	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	905	831	302	3,604	8.92	72.6	740	813	70.0	188	258	37,900	943,070	980,971	3,017	38.5	8,628	1,076,520
Mit.	667	609	291	2,348	8.84	70.5	740	811	68.4	188	256	37,900	938,036	975,937	3,017	38.5	8,628	1,071,468
% Reduced	26%	27%	4%	35%	1%	3%	—	< 0.5%	2%	—	1%	—	1%	1%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	688	630	306	1,839	8.27	70.5	740	811	68.4	188	256	37,900	880,544	918,444	3,018	40.2	8,572	1,014,431
Mit.	666	608	306	1,839	8.27	70.5	740	811	68.4	188	256	37,900	880,544	918,444	3,018	40.2	8,572	1,014,431
% Reduced	3%	4%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	731	696	289	2,262	7.47	30.7	737	768	29.9	187	217	31,158	883,599	914,758	2,986	39.4	8,595	1,009,74
Mit.	602	576	284	1,642	7.43	29.7	737	767	29.1	187	216	31,158	881,117	912,275	2,986	39.4	8,595	1,007,25 ₁
% Reduced	18%	17%	2%	27%	< 0.5%	3%	—	< 0.5%	3%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	133	127	52.8	413	1.36	5.60	134	140	5.46	34.1	39.5	5,159	146,290	151,449	494	6.52	1,423	167,174
Mit.	110	105	51.9	300	1.36	5.41	134	140	5.31	34.1	39.4	5,159	145,879	151,038	494	6.52	1,423	166,762
% Reduced	18%	17%	2%	27%	< 0.5%	3%	—	< 0.5%	3%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

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	68.0	62.9	58.2	1,804	6.30	1.58	740	742	1.47	188	189	—	637,328	637,328	5.74	10.7	56.9	640,725
Area	814	756	29.8	1,623	1.34	54.7	—	54.7	52.3	—	52.3	8,695	21,879	30,574	41.2	0.07	—	31,626
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	905	831	302	3,604	8.92	72.6	740	813	70.0	188	258	37,900	943,070	980,971	3,017	38.5	8,628	1,076,520
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	66.8	61.7	73.3	1,295	5.73	1.58	740	742	1.47	188	189	—	579,836	579,836	6.42	12.4	1.48	583,688

Area	598	557	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	688	630	306	1,839	8.27	70.5	740	811	68.4	188	256	37,900	880,544	918,444	3,018	40.2	8,572	1,014,431
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	66.2	61.1	66.3	1,383	5.86	1.58	737	738	1.47	187	188	—	593,469	593,469	6.07	11.6	24.6	597,112
Area	641	623	9.55	702	0.32	12.9	—	12.9	12.2	—	12.2	1,953	6,267	8,220	9.31	0.03	—	8,461
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	731	696	289	2,262	7.47	30.7	737	768	29.9	187	217	31,158	883,599	914,758	2,986	39.4	8,595	1,009,743
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.1	11.2	12.1	252	1.07	0.29	134	135	0.27	34.1	34.4	—	98,256	98,256	1.00	1.93	4.07	98,859
Area	117	114	1.74	128	0.06	2.35	—	2.35	2.22	—	2.22	323	1,038	1,361	1.54	< 0.005	—	1,401
Energy	4.29	2.15	39.0	32.3	0.23	2.97	—	2.97	2.97	—	2.97	—	42,263	42,263	3.74	0.08	—	42,380
Water	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947
Waste	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,734	4,734	—	—	—	4,734
Total	133	127	52.8	413	1.36	5.60	134	140	5.46	34.1	39.5	5,159	146,290	151,449	494	6.52	1,423	167,174

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	68.0	62.9	58.2	1,804	6.30	1.58	740	742	1.47	188	189	—	637,328	637,328	5.74	10.7	56.9	640,725
Area	576	534	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	667	609	291	2,348	8.84	70.5	740	811	68.4	188	256	37,900	938,036	975,937	3,017	38.5	8,628	1,071,468
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	66.8	61.7	73.3	1,295	5.73	1.58	740	742	1.47	188	189	—	579,836	579,836	6.42	12.4	1.48	583,688
Area	576	534	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	666	608	306	1,839	8.27	70.5	740	811	68.4	188	256	37,900	880,544	918,444	3,018	40.2	8,572	1,014,431
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	66.2	61.1	66.3	1,383	5.86	1.58	737	738	1.47	187	188	—	593,469	593,469	6.07	11.6	24.6	597,112
Area	512	503	4.30	82.4	0.28	11.8	—	11.8	11.4	—	11.4	1,953	3,784	5,738	9.20	0.01	—	5,970
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	602	576	284	1,642	7.43	29.7	737	767	29.1	187	216	31,158	881,117	912,275	2,986	39.4	8,595	1,007,251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	12.1	11.2	12.1	252	1.07	0.29	134	135	0.27	34.1	34.4	—	98,256	98,256	1.00	1.93	4.07	98,859
Area	93.5	91.8	0.79	15.0	0.05	2.16	—	2.16	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988
Energy	4.29	2.15	39.0	32.3	0.23	2.97	—	2.97	2.97	—	2.97	—	42,263	42,263	3.74	0.08	—	42,380
Water	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947
Waste	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,734	4,734	—	—	—	4,734
Total	110	105	51.9	300	1.36	5.41	134	140	5.31	34.1	39.4	5,159	145,879	151,038	494	6.52	1,423	166,762

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.42	0.40	0.28	7.55	0.03	0.01	2.93	2.94	0.01	0.74	0.75	—	2,540	2,540	0.03	0.05	0.23	2,556						
Govern ment Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Industria l Park	40.2	36.5	41.2	1,357	4.83	1.20	570	571	1.11	144	145	—	489,192	489,192	3.77	7.69	43.8	491,621						
Parking Lot	0.09	0.08	0.03	0.25	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.2	19.2	< 0.005	< 0.005	< 0.005	20.5						
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	0.00	0.00	0.00						
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Office Park	1.52	1.39	1.51	49.3	0.18	0.04	20.6	20.7	0.04	5.23	5.27	—	17,738	17,738	0.14	0.28	1.59	17,828						
University/College (4yr)	9.65	9.05	7.05	204	0.70	0.18	81.5	81.6	0.16	20.6	20.8	—	70,397	70,397	0.75	1.28	6.27	70,804						
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	0.00	0.00	0.00						
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00						
Hotel	1.16	1.11	0.58	13.3	0.04	0.01	4.65	4.66	0.01	1.18	1.19	—	4,085	4,085	0.07	0.10	0.36	4,117						

Gasolin Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Conveni ence Market (24 hour)	3.33	3.20	1.68	38.1	0.12	0.03	13.4	13.4	13.4	0.03	0.03	3.39	3.42	—	11,752	11,752	0.22	0.29	1.03	11,846
Fast Food Restaurant with Drive Thru	7.66	7.36	3.86	87.6	0.27	0.07	30.7	30.8	30.8	0.07	7.78	7.85	—	27,001	27,001	0.50	0.67	2.36	27,216	
High Turnover (Sit Down Restaurant)	1.03	0.99	0.52	11.8	0.04	0.01	4.15	4.16	4.16	0.01	1.05	1.06	—	3,645	3,645	0.07	0.09	0.32	3,674	
Fast Food Restaurant w/o Drive Thru	0.47	0.45	0.24	5.38	0.02	< 0.005	1.89	1.89	1.89	< 0.005	0.48	0.48	—	1,657	1,657	0.03	0.04	0.15	1,671	
Bank (with Drive-Through)	0.61	0.58	0.31	6.93	0.02	0.01	2.43	2.44	2.44	0.01	0.62	0.62	—	2,137	2,137	0.04	0.05	0.19	2,154	
Strip Mall	1.86	1.78	0.97	22.8	0.07	0.02	8.17	8.19	8.19	0.02	2.07	2.09	—	7,164	7,164	0.12	0.17	0.63	7,218	
Total	68.0	62.9	58.2	1,804	6.30	1.58	740	742	742	1.47	188	189	—	637,328	637,328	5.74	10.7	56.9	640,725	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.42	0.39	0.35	5.73	0.02	0.01	2.93	2.94	2.94	0.01	0.74	0.75	—	2,313	2,313	0.04	0.06	0.01	2,331	
Govern ment Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Industrial Park	39.3	35.7	52.0	950	4.39	1.20	570	571	1.11	144	145	—	444,911	444,911	4.08	8.89	1.14	447,664
Parking Lot	0.09	0.08	0.03	0.35	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	0.01	< 0.005	< 0.005	20.1
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	1.49	1.36	1.91	34.7	0.16	0.04	20.6	20.7	0.04	5.23	5.27	—	16,134	16,134	0.15	0.33	0.04	16,235
University/College (4yr)	9.51	8.89	8.84	151	0.63	0.18	81.5	81.6	0.16	20.6	20.8	—	64,074	64,074	0.86	1.48	0.16	64,535
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	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	1.15	1.10	0.72	11.0	0.04	0.01	4.65	4.66	0.01	1.18	1.19	—	3,726	3,726	0.09	0.12	0.01	3,763
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	3.31	3.16	2.08	31.5	0.11	0.03	13.4	13.4	0.03	3.39	3.42	—	10,718	10,718	0.27	0.33	0.03	10,825

Fast Food Restaurant with Drive Thru	7.60	7.25	4.78	72.5	0.24	0.07	30.7	30.8	0.07	7.78	7.85	—	24,626	24,626	0.61	0.77	0.06	24,870
High Turnover (Sit Down Restaurant)	1.02	0.98	0.65	9.78	0.03	0.01	4.15	4.16	0.01	1.05	1.06	—	3,324	3,324	0.08	0.10	0.01	3,357
Fast Food Restaurant w/o Drive Thru	0.47	0.44	0.29	4.45	0.01	< 0.005	1.89	1.89	< 0.005	0.48	0.48	—	1,512	1,512	0.04	0.05	< 0.005	1,527
Bank (with Drive-Through)	0.60	0.57	0.38	5.74	0.02	0.01	2.43	2.44	0.01	0.62	0.62	—	1,949	1,949	0.05	0.06	< 0.005	1,968
Strip Mall	1.84	1.75	1.21	18.6	0.06	0.02	8.17	8.19	0.02	2.07	2.09	—	6,532	6,532	0.15	0.19	0.02	6,593
Total	66.8	61.7	73.3	1,295	5.73	1.58	740	742	1.47	188	189	—	579,836	579,836	6.42	12.4	1.48	583,688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.08	0.07	0.06	1.09	< 0.005	< 0.005	0.53	0.53	< 0.005	0.13	0.14	—	392	392	0.01	0.01	0.02	395
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	7.12	6.47	8.58	187	0.82	0.22	104	104	0.20	26.2	26.4	—	75,400	75,400	0.65	1.38	3.13	75,831
Parking Lot	0.02	0.02	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.32
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	0.00	0.00	0.00

High Turnover (Sit Down Restaurant)	0.18	0.18	0.11	1.80	0.01	< 0.005	0.19	0.19	—	563	563	0.01	0.02	0.02	568
Fast Food Restaurant w/o Drive Thru	0.08	0.08	0.05	0.82	< 0.005	< 0.005	0.09	0.09	—	256	256	0.01	0.01	0.01	258
Bank (with Drive-Through)	0.11	0.10	0.06	1.05	< 0.005	< 0.005	0.11	0.11	—	330	330	0.01	0.01	0.01	333
Strip Mall	0.33	0.32	0.20	3.44	0.01	< 0.005	0.38	0.38	—	1,106	1,106	0.02	0.03	0.04	1,116
Total	12.1	11.2	12.1	252	1.07	0.29	34.1	34.4	—	98,256	98,256	1.00	1.93	4.07	98,859

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.42	0.40	0.28	7.55	0.03	0.01	2.93	2.94	0.01	0.74	0.75	—	2,540	2,540	0.03	0.05	0.23	2,556
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	40.2	36.5	41.2	1,357	4.83	1.20	570	571	1.11	144	145	—	489,192	489,192	3.77	7.69	43.8	491,621
Parking Lot	0.09	0.08	0.03	0.25	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19.2	19.2	< 0.005	< 0.005	< 0.005	20.5

High Turnover (Sit Down Restaurant)	1.03	0.99	0.52	11.8	0.04	0.01	4.15	4.16	0.01	1.05	1.06	—	3,645	3,645	0.07	0.09	0.32	3,674
Fast Food Restaurant w/o Drive Thru	0.47	0.45	0.24	5.38	0.02	< 0.005	1.89	1.89	< 0.005	0.48	0.48	—	1,657	1,657	0.03	0.04	0.15	1,671
Bank (with Drive-Through)	0.61	0.58	0.31	6.93	0.02	0.01	2.43	2.44	0.01	0.62	0.62	—	2,137	2,137	0.04	0.05	0.19	2,154
Strip Mall	1.86	1.78	0.97	22.8	0.07	0.02	8.17	8.19	0.02	2.07	2.09	—	7,164	7,164	0.12	0.17	0.63	7,218
Total	68.0	62.9	58.2	1,804	6.30	1.58	740	742	1.47	188	189	—	637,328	637,328	5.74	10.7	56.9	640,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.42	0.39	0.35	5.73	0.02	0.01	2.93	2.94	0.01	0.74	0.75	—	2,313	2,313	0.04	0.06	0.01	2,331
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	39.3	35.7	52.0	950	4.39	1.20	570	571	1.11	144	145	—	444,911	444,911	4.08	8.89	1.14	447,664
Parking Lot	0.09	0.08	0.03	0.35	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	0.01	< 0.005	< 0.005	20.1
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Fast Food Restaurant w/o Drive Thru	0.47	0.44	0.29	4.45	0.01	< 0.005	1.89	1.89	1.89	< 0.005	0.48	0.48	—	1,512	1,512	0.04	0.05	< 0.005	1,527
Bank (with Drive-Through)	0.60	0.57	0.38	5.74	0.02	0.01	2.43	2.44	0.01	0.62	0.62	0.62	—	1,949	1,949	0.05	0.06	< 0.005	1,968
Strip Mall	1.84	1.75	1.21	18.6	0.06	0.02	8.17	8.19	0.02	2.07	2.09	2.07	—	6,532	6,532	0.15	0.19	0.02	6,593
Total	66.8	61.7	73.3	1,295	5.73	1.58	740	742	1.47	188	189	188	—	579,836	579,836	6.42	12.4	1.48	583,688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.08	0.07	0.06	1.09	< 0.005	< 0.005	0.53	0.53	< 0.005	0.13	0.14	0.13	—	392	392	0.01	0.01	0.02	395
Govern ment Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industria l Park	7.12	6.47	8.58	187	0.82	0.22	104	104	0.20	26.2	26.4	26.2	—	75,400	75,400	0.65	1.38	3.13	75,831
Parking Lot	0.02	0.02	0.01	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.32
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	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.27	0.25	0.32	6.82	0.03	0.01	3.75	3.76	0.01	0.95	0.96	0.95	—	2,734	2,734	0.02	0.05	0.11	2,750

University/College	1.72	1.61	1.46	29.1	0.12	0.03	14.8	14.8	0.03	3.75	3.78	—	10,856	10,856	0.13	0.23	0.45	10,928
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	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.21	0.20	0.12	2.02	0.01	< 0.005	0.84	0.85	< 0.005	0.21	0.22	—	631	631	0.01	0.02	0.03	637
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	0.59	0.57	0.34	5.80	0.02	0.01	2.43	2.44	0.01	0.62	0.62	—	1,815	1,815	0.04	0.05	0.07	1,831
Fast Food Restaurant with Drive Thru	1.37	1.31	0.79	13.3	0.05	0.01	5.58	5.59	0.01	1.41	1.43	—	4,170	4,170	0.09	0.12	0.17	4,208
High Turnover (Sit Down Restaurant)	0.18	0.18	0.11	1.80	0.01	< 0.005	0.75	0.76	< 0.005	0.19	0.19	—	563	563	0.01	0.02	0.02	568
Fast Food Restaurant w/o Drive Thru	0.08	0.08	0.05	0.82	< 0.005	< 0.005	0.34	0.34	< 0.005	0.09	0.09	—	256	256	0.01	0.01	0.01	258
Bank (with Drive-Through)	0.11	0.10	0.06	1.05	< 0.005	< 0.005	0.44	0.44	< 0.005	0.11	0.11	—	330	330	0.01	0.01	0.01	333

Strip Mall	0.33	0.32	0.20	3.44	0.01	< 0.005	1.49	1.49	1.49	< 0.005	0.38	0.38	—	1,106	1,106	1,106	0.02	0.03	0.04	1,116
Total	12.1	11.2	12.1	252	1.07	0.29	134	134	135	0.27	34.1	34.4	—	98,256	98,256	98,256	1.00	1.93	4.07	98,859

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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
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Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Government Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industrial Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	—	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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

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	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.08	0.08	< 0.005	—	863
University/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	15,511	15,511	0.03	—	15,554
Apartments Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	7,072	7,072	0.01	—	7,092
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	615	615	< 0.005	—	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	266	266	< 0.005	—	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	77.5	77.5	< 0.005	—	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	531	531	< 0.005	—	533

High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	—	0.03	—	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	0.01	—	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	66.4	66.4	0.01	< 0.005	—	66.6
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	0.01	—	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	0.01	—	106	106	0.01	< 0.005	—	107
Government Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industrial Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	860	860	0.08	< 0.005	863
University/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	15,511	15,511	1.37	0.03	15,554
Apartments Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	7,072	7,072	0.63	0.01	7,092
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	615	615	0.05	< 0.005	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	266	266	0.02	< 0.005	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	77.5	77.5	0.01	< 0.005	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	531	531	0.05	< 0.005	533
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	547	547	0.05	< 0.005	548

Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	66.4	66.4	0.01	< 0.005	—	66.6
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	—	0.01	—	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Govern ment Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	—	0.01	—	173	173	0.02	< 0.005	—	174
Industria l Park	3.84	1.92	34.9	29.3	0.21	2.65	—	2.65	—	2.65	—	37,797	37,797	3.35	0.07	—	37,902
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	—	0.01	—	142	142	0.01	< 0.005	—	143

University/College	0.26	0.13	2.37	1.99	0.01	0.18	—	0.18	—	0.18	—	2,568	2,568	0.23	< 0.005	—	2,575
Apartments Mid Rise	0.12	0.06	1.02	0.43	0.01	0.08	—	0.08	—	0.08	—	1,171	1,171	0.10	< 0.005	—	1,174
Unenclosed Parking with Elevator	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
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	—	0.01	—	102	102	0.01	< 0.005	—	102
Gasoline/Service Station	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	44.0	44.0	< 0.005	< 0.005	—	44.1
Convenience Market (24 hour)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	—	12.9
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.2
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	—	0.01	—	90.5	90.5	0.01	< 0.005	—	90.8
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	25.9	25.9	< 0.005	< 0.005	—	25.9
Bank (with Drive-Through)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	—	11.0

Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.1	< 0.005	—	20.1
Total	4.29	2.15	39.0	32.3	0.23	2.97	—	2.97	2.97	—	42,263	3.74	0.08	42,380

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Government Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industrial Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	—	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	—	0.05	0.05	—	0.05	—	860	860	0.08	< 0.005	—	863

University/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	—	0.99	—	0.99	—	15,511	15,511	1.37	0.03	—	15,554
Apartments Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	—	0.45	0.45	—	—	7,072	7,072	0.63	0.01	—	7,092
Unenclosed Parking with Elevator	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
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	0.04	—	0.04	615	615	0.05	< 0.005	—	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	266	266	0.02	< 0.005	—	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	77.5	77.5	0.01	< 0.005	—	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	531	531	0.05	< 0.005	—	533
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.4	66.4	0.01	< 0.005	—	66.6

Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	106	106	0.01	< 0.005	—	107
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industria l Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	—	0.05	0.05	—	860	860	0.08	< 0.005	—	863
Universit y/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	—	0.99	0.99	—	15,511	15,511	1.37	0.03	—	15,554
Apartme nts Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	—	0.45	0.45	—	7,072	7,072	0.63	0.01	—	7,092

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.06	0.03	0.52	0.43	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
Gasoline/Service Station	0.02	0.01	0.22	0.19	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
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	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
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	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
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	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
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Strip Mall	0.01	0.01	0.10	0.09	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
Total	23.5	11.8	214	177	1.28	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	—	< 0.005	—	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Government Office Building	0.02	0.01	0.16	0.13	< 0.005	—	0.01	0.01	—	0.01	173	173	0.02	< 0.005	—	174
Industrial Park	3.84	1.92	34.9	29.3	0.21	2.65	—	2.65	—	2.65	37,797	37,797	3.35	0.07	—	37,902
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	0.01	142	142	0.01	< 0.005	—	143
University/College (4yr)	0.26	0.13	2.37	1.99	0.01	0.18	—	0.18	0.18	—	2,568	2,568	0.23	< 0.005	—	2,575
Apartments Mid Rise	0.12	0.06	1.02	0.43	0.01	0.08	—	0.08	0.08	—	1,171	1,171	0.10	< 0.005	—	1,174
Unenclosed Parking with Elevator	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
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	102	102	0.01	< 0.005	—	102

Gasoline/Service Station	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	44.0	44.0	< 0.005	< 0.005	< 0.005	—	44.1
Convenience Market (24 hour)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	< 0.005	—	12.9
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	0.01	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	< 0.005	—	88.2
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	0.01	0.01	0.01	—	0.01	—	90.5	90.5	0.01	< 0.005	< 0.005	—	90.8
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	25.9	25.9	< 0.005	< 0.005	< 0.005	—	25.9
Bank (with Drive-Through)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	—	11.0
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	< 0.005	—	20.1
Total	4.29	2.15	39.0	32.3	0.23	2.97	2.97	2.97	2.97	—	2.97	—	42,263	42,263	3.74	0.08	—	—	42,380

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	82.0	40.5	19.2	367	1.26	52.6	—	—	—	50.7	—	—	50.7	—	—	8,695	16,845	25,540	41.0	0.03	—	—	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	38.3	38.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	216	199	10.6	1,256	0.07	2.11	—	—	—	1.60	—	—	1.60	—	—	—	5,034	5,034	0.21	0.04	—	—	—	5,052
Total	814	756	29.8	1,623	1.34	54.7	—	—	—	52.3	—	—	52.3	—	—	8,695	21,879	30,574	41.2	0.07	—	—	—	31,626
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	82.0	40.5	19.2	367	1.26	52.6	—	—	—	50.7	—	—	50.7	—	—	8,695	16,845	25,540	41.0	0.03	—	—	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	38.3	38.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	598	557	19.2	367	1.26	52.6	—	—	—	50.7	—	—	50.7	—	—	8,695	16,845	25,540	41.0	0.03	—	—	—	26,574
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.36	1.66	0.79	15.0	0.05	2.16	—	—	—	2.08	—	—	2.08	—	—	323	627	950	1.52	< 0.005	—	—	—	988
Consumer Products	87.2	87.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	6.98	6.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	19.4	17.9	0.96	113	0.01	0.19	—	0.19	0.14	—	0.14	—	—	411	411	0.02	< 0.005	—	412
Total	117	114	1.74	128	0.06	2.35	—	2.35	2.22	—	2.22	323	1,038	1,361	1.54	< 0.005	—	—	1,401

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	82.0	40.5	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	16.1	16.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	576	534	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	82.0	40.5	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	16.1	16.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	576	534	19.2	367	1.26	52.6	—	52.6	—	50.7	—	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.36	1.66	0.79	15.0	0.05	2.16	—	2.16	—	2.08	—	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988
Consumer Products	87.2	87.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.94	2.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	93.5	91.8	0.79	15.0	0.05	2.16	—	2.16	—	2.08	—	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.00	3.92	0.40	0.01	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.41	0.10	—	185
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,934	0.00	10,934	1,121	26.6	—	46,902
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other — Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office — Park	—	—	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	136
Universit — y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	88.0
Apartme — nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	535
Unenclo — sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel —	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.00	5.83	0.60	0.01	25.0
Gasolin — e/Service e Station	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.00	0.20	0.02	< 0.005	0.87
Conveni — ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.00	1.14	0.12	< 0.005	4.87
Fast — Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.00	7.91	0.81	0.02	33.9
High — Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	8.14	0.00	8.14	0.83	0.02	34.9

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.33	0.00	2.33	0.24	0.01	—	9.98
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	< 0.005	—	1.63
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.23	0.00	6.23	0.64	0.02	—	26.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	< 0.005	—	2.78
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.00	7.13	0.73	0.02	—	30.6
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,810	0.00	1,810	186	4.41	—	7,765
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.24	0.00	5.24	0.54	0.01	—	22.5

University/College	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	0.00	3.40	0.35	0.01	—	14.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6	0.00	20.6	2.12	0.05	—	88.6
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	< 0.005	—	4.14
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	< 0.005	—	0.14
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	< 0.005	—	0.81
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.31	0.00	1.31	0.13	< 0.005	—	5.62
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.35	0.00	1.35	0.14	< 0.005	—	5.78
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.00	0.39	0.04	< 0.005	—	1.65
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	< 0.005	—	0.27

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.03	0.00	1.03	0.11	< 0.005	—	4.43
Total	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.00	3.92	0.40	0.01	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.41	0.10	—	185
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,934	0.00	10,934	1,121	26.6	—	46,902
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	—	136

University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	—	88.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	—	535
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.00	5.83	0.60	0.01	—	25.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.00	0.20	0.02	< 0.005	—	0.87
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.00	1.14	0.12	< 0.005	—	4.87
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.00	7.91	0.81	0.02	—	33.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	8.14	0.00	8.14	0.83	0.02	—	34.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	2.33	0.00	2.33	0.24	0.01	—	9.98
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	< 0.005	—	1.63

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	< 0.005	—	2.78
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.00	7.13	0.73	0.02	—	30.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,810	0.00	1,810	186	4.41	—	7,765
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	5.24	0.00	5.24	0.54	0.01	—	22.5
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	0.00	3.40	0.35	0.01	—	14.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6	0.00	20.6	2.12	0.05	—	88.6
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	< 0.005	—	4.14

Gasoline Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	< 0.005	—	0.14
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	< 0.005	—	0.81
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	1.31	0.00	1.31	0.13	< 0.005	—	5.62
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.35	0.00	1.35	0.14	< 0.005	—	5.78
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.00	0.39	0.04	< 0.005	—	1.65
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	< 0.005	—	0.27
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	1.03	0.00	1.03	0.11	< 0.005	—	4.43
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947

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
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	16,490	0.00	16,490	1,648	0.00	—	57,693
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	9.11	0.00	9.11	0.91	0.00	—	31.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	46.6	0.00	46.6	4.66	0.00	—	163
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	638	0.00	638	63.7	0.00	—	2,231
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.13
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	0.00	13.0	1.30	0.00	—	45.3

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.72	0.00	7.72	0.77	0.00	27.0
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.4	0.00	81.4	8.14	0.00	285
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	369
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	20.5
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	1.35
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.15	0.00	2.15	0.21	0.00	7.51
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	48.9

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.0
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	56.7	0.00	56.7	5.67	0.00	—	198
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	16,490	0.00	16,490	1,648	0.00	—	57,693
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other — Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Office — Park	—	—	—	—	—	—	—	—	—	—	—	—	—	46.6	0.00	4.66	—	0.00
Universit — y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	492	0.00	49.2	—	0.00
Apartme — nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	638	0.00	63.7	—	0.00
Unenclo — sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Hotel —	—	—	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	3.54	—	0.00
Gasolin — e/Service e Station	—	—	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	0.23	—	0.00
Conveni — ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	0.00	1.30	—	0.00
Fast — Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	0.00	8.44	—	0.00
High — Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	89.8	0.00	8.97	—	0.00

University/College	—	—	—	—	—	—	—	—	—	—	—	—	81.4	0.00	81.4	8.14	0.00	—	285
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	369
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.35
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	2.15	0.00	2.15	0.21	0.00	—	7.51
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	—	48.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.0
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46

[illegible]

[illegible]

[illegible]

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.04	1.04
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,752	6,752
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,752	6,752
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.33	5.33
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.8	93.8
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,659	1,659
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9	21.9

[illegible]

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

[illegible]

[illegible]

4.7.2. Mitigated

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

[illegible]

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)

[illegible]

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	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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241

[illegible]

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

[illegible]

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241

[illegible]

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

[illegible]

[illegible]

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	331	331	331	120,815	4,158	4,158	4,158	1,517,670
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	26,402	26,402	26,402	9,636,731	808,575	808,575	808,575	295,129,807
Parking Lot	77.0	77.0	77.0	28,110	15.7	15.7	15.7	5,732
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	1,017	1,017	1,017	371,205	29,307	29,307	29,307	10,697,022
University/College (4yr)	7,272	7,272	7,272	2,654,280	115,625	115,625	115,625	42,203,052
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	960	960	960	350,400	6,596	6,596	6,596	2,407,539
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	2,762	2,762	2,762	1,008,130	18,976	18,976	18,976	6,926,317
Fast Food Restaurant with Drive Thru	6,348	6,348	6,348	2,317,020	43,597	43,597	43,597	15,913,015
High Turnover (Sit Down Restaurant)	856	856	856	312,440	5,886	5,886	5,886	2,148,244

Fast Food Restaurant w/o Drive Thru	389	389	389	141,985	2,676	2,676	2,676	976,887
Bank (with Drive-Through)	502	502	502	183,230	3,450	3,450	3,450	1,259,323
Strip Mall	1,526	1,526	1,526	556,889	11,601	11,601	11,601	4,234,325

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VTM/Weekday	VTM/Saturday	VTM/Sunday	VTM/Year
General Office Building	331	331	331	120,815	4,158	4,158	4,158	1,517,670
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	26,402	26,402	26,402	9,636,731	808,575	808,575	808,575	295,129,807
Parking Lot	77.0	77.0	77.0	28,110	15.7	15.7	15.7	5,732
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	1,017	1,017	1,017	371,205	29,307	29,307	29,307	10,697,022
University/College (4yr)	7,272	7,272	7,272	2,654,280	115,625	115,625	115,625	42,203,052
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	960	960	960	350,400	6,596	6,596	6,596	2,407,539
Gasoline/Service Station	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Convenience Market (24 hour)	2,762	2,762	2,762	1,008,130	18,976	18,976	18,976	6,926,317

Fast Food Restaurant with Drive Thru	6,348	6,348	6,348	6,348	2,317,020	43,597	43,597	43,597	15,913,015
High Turnover (Sit Down Restaurant)	856	856	856	856	312,440	5,886	5,886	5,886	2,148,244
Fast Food Restaurant w/o Drive Thru	389	389	389	389	141,985	2,676	2,676	2,676	976,887
Bank (with Drive-Through)	502	502	502	502	183,230	3,450	3,450	3,450	1,259,323
Strip Mall	1,526	1,526	1,526	1,526	556,889	11,601	11,601	11,601	4,234,325

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)								
Apartments Mid Rise	—								
Wood Fireplaces	0								
Gas Fireplaces	800								
Propane Fireplaces	0								
Electric Fireplaces	0								
No Fireplaces	800								
Conventional Wood Stoves	0								
Catalytic Wood Stoves	80								
Non-Catalytic Wood Stoves	80								
Pellet Wood Stoves	0								

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	800
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	800
Conventional Wood Stoves	0
Catalytic Wood Stoves	80
Non-Catalytic Wood Stoves	80
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3110400	1,036,800	39,663,586	13,220,498	1,614,159

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)	
General Office Building	240,687	0.00	0.0000	0.0000	331,994	
Government Office Building	2,367,108	0.00	0.0000	0.0000	3,265,086	
Industrial Park	516,431,380	0.00	0.0000	0.0000	712,343,077	
Parking Lot	5,887,866	0.00	0.0000	0.0000	0.00	
City Park	0.00	0.00	0.0000	0.0000	0.00	
Other Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00	
Other Non-Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00	
Office Park	1,946,428	0.00	0.0000	0.0000	2,684,819	
University/College (4yr)	8,066,932	0.00	0.0000	0.0000	48,397,263	
Apartments Mid Rise	7,228,498	0.00	0.0000	0.0000	22,067,987	
Unenclosed Parking with Elevator	985,173	0.00	0.0000	0.0000	0.00	
Hotel	367,683	0.00	0.0000	0.0000	1,917,419	
Gasoline/Service Station	206,599	0.00	0.0000	0.0000	829,172	
Convenience Market (24 hour)	409,734	0.00	0.0000	0.0000	241,901	
Fast Food Restaurant with Drive Thru	546,089	0.00	0.0000	0.0000	1,657,172	
High Turnover (Sit Down Restaurant)	562,151	0.00	0.0000	0.0000	1,705,912	
Fast Food Restaurant w/o Drive Thru	160,614	0.00	0.0000	0.0000	487,403	
Bank (with Drive-Through)	51,650	0.00	0.0000	0.0000	207,293	
Strip Mall	382,460	0.00	0.0000	0.0000	378,664	

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)
General Office Building	240,687	0.00	0.0000	0.0000	331,994
Government Office Building	2,367,108	0.00	0.0000	0.0000	3,265,086
Industrial Park	516,431,380	0.00	0.0000	0.0000	712,343,077
Parking Lot	5,887,866	0.00	0.0000	0.0000	0.00
City Park	0.00	0.00	0.0000	0.0000	0.00
Other Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00
Office Park	1,946,428	0.00	0.0000	0.0000	2,684,819
University/College (4yr)	8,066,932	0.00	0.0000	0.0000	48,397,263
Apartments Mid Rise	7,228,498	0.00	0.0000	0.0000	22,067,987
Unenclosed Parking with Elevator	985,173	0.00	0.0000	0.0000	0.00
Hotel	367,683	0.00	0.0000	0.0000	1,917,419
Gasoline/Service Station	206,599	0.00	0.0000	0.0000	829,172
Convenience Market (24 hour)	409,734	0.00	0.0000	0.0000	241,901
Fast Food Restaurant with Drive Thru	546,089	0.00	0.0000	0.0000	1,657,172
High Turnover (Sit Down Restaurant)	562,151	0.00	0.0000	0.0000	1,705,912
Fast Food Restaurant w/o Drive Thru	160,614	0.00	0.0000	0.0000	487,403
Bank (with Drive-Through)	51,650	0.00	0.0000	0.0000	207,293
Strip Mall	382,460	0.00	0.0000	0.0000	378,664

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	2,043,938	0.00
Government Office Building	22,468,410	0.00
Industrial Park	5,706,093,750	84,140,425
Parking Lot	0.00	484,932
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Office Park	16,529,239	354,059
University/College (4yr)	10,705,500	39,553,323
Apartments Mid Rise	65,078,040	0.00
Unenclosed Parking with Elevator	0.00	0.00
Hotel	3,044,012	218,317
Gasoline/Service Station	106,255	103,895
Convenience Market (24 hour)	592,580	296,343
Fast Food Restaurant with Drive Thru	4,128,058	503,782
High Turnover (Sit Down Restaurant)	4,249,472	518,604
Fast Food Restaurant w/o Drive Thru	1,214,135	148,165
Bank (with Drive-Through)	198,115	185,220
Strip Mall	3,251,784	743,785

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	2,043,938	0.00
Government Office Building	22,468,410	0.00
Industrial Park	5,706,093,750	84,140,425

Parking Lot	0.00	484,932
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Office Park	16,529,239	354,059
University/College (4yr)	10,705,500	39,553,323
Apartments Mid Rise	65,078,040	0.00
Unenclosed Parking with Elevator	0.00	0.00
Hotel	3,044,012	218,317
Gasoline/Service Station	106,255	103,895
Convenience Market (24 hour)	592,580	296,343
Fast Food Restaurant with Drive Thru	4,128,058	503,782
High Turnover (Sit Down Restaurant)	4,249,472	518,604
Fast Food Restaurant w/o Drive Thru	1,214,135	148,165
Bank (with Drive-Through)	198,115	185,220
Strip Mall	3,251,784	743,785

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Government Office Building	105	—
Industrial Park	30,597	—
Parking Lot	0.00	—
City Park	16.9	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—

Office Park	86.5	—
University/College (4yr)	913	—
Apartments Mid Rise	1,183	—
Unenclosed Parking with Elevator	0.00	—
Hotel	65.7	—
Gasoline/Service Station	4.31	—
Convenience Market (24 hour)	24.0	—
Fast Food Restaurant with Drive Thru	157	—
High Turnover (Sit Down Restaurant)	167	—
Fast Food Restaurant w/o Drive Thru	46.1	—
Bank (with Drive-Through)	4.67	—
Strip Mall	46.1	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Government Office Building	105	—
Industrial Park	30,597	—
Parking Lot	0.00	—
City Park	16.9	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Office Park	86.5	—
University/College (4yr)	913	—
Apartments Mid Rise	1,183	—
Unenclosed Parking with Elevator	0.00	—
Hotel	65.7	—
Gasoline/Service Station	4.31	—

Convenience Market (24 hour)	24.0	—	—
Fast Food Restaurant with Drive Thru	157	—	—
High Turnover (Sit Down Restaurant)	167	—	—
Fast Food Restaurant w/o Drive Thru	46.1	—	—
Bank (with Drive-Through)	4.67	—	—
Strip Mall	46.1	—	—

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
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
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
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
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
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
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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

Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
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
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
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
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088		< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922		26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430		0.02	0.60	0.00	1.00
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088		< 0.005	4.00	4.00	18.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

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
Cropland	Inceptisols	1,577	0.00
Urban	Inceptisols	0.00	1,577

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Cropland	Inceptisols	1,577	0.00
Urban	Inceptisols	0.00	1,577

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	1,577	0.00
Grassland	0.00	173
Urban	0.00	1,404

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	1,577	0.00
Grassland	0.00	173
Urban	0.00	1,404

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—

Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632

Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	2057 RPS
Land Use	Land uses are based on Project-specific information.
Operations: Vehicle Data	Project trip lengths and rates derived from traffic study conducted by Fehr & Peers.
Operations: Fleet Mix	Auto-specific fleet mix
Operations: Energy Use	—
Operations: Refrigerants	Refrigerant usage for Industrial Park based on Project-specific data.
Operations: Consumer Products	Refined consumer product emission factor based on San Joaquin County-specific consumer product usage and population projections.

Pacific Gateway (Project Operation - Truck) Detailed Report

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5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Pacific Gateway (Project Operation - Truck)
Operational Year	2050
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.40
Precipitation (days)	6.60
Location	37.649944, -121.397722
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2114
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	11.5	1000sqft	0.50	11,500	0.00	—	—	—

Government Office Building	113	1000sqft	2.60	113,100	0.00	—	—	—
Industrial Park	24,675	1000sqft	705	24,675,000	5,994,592	—	—	—
Parking Lot	6,685	1000sqft	154	0.00	34,549	—	—	—
City Park	197	Acre	197	0.00	0.00	0.00	—	—
Other Asphalt Surfaces	15,155	1000sqft	348	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	4,959	1000sqft	114	0.00	0.00	—	—	—
Office Park	93.0	1000sqft	2.70	93,000	25,225	—	—	—
University/College (4yr)	5,000	Student	39.8	1,379,200	1,268,091	1,268,091	—	—
Apartments Mid Rise	1,600	Dwelling Unit	4.80	1,536,000	0.00	—	5,168	—
Unenclosed Parking with Elevator	874	Space	1.60	349,600	0.00	—	—	—
Hotel	120	Room	0.60	60,000	15,554	—	—	—
Gasoline/Service Station	8.00	Pump	0.60	20,000	7,402	—	—	—
Convenience Market (24 hour)	8.00	1000sqft	0.70	8,000	21,113	—	—	—
Fast Food Restaurant with Drive Thru	13.6	1000sqft	1.20	13,600	35,892	—	—	—
High Turnover (Sit Down Restaurant)	14.0	1000sqft	1.20	14,000	36,948	—	—	—
Fast Food Restaurant w/o Drive Thru	4.00	1000sqft	0.30	4,000	10,556	—	—	—
Bank (with Drive-Through)	5.00	1000sqft	0.40	5,000	13,196	—	—	—
Strip Mall	43.9	1000sqft	2.20	43,900	52,991	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	LL-1	Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	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.	869	789	1,549	2,053	14.0	96.4	460	556	92.9	124	216	37,900	1,520,189	1,558,089	3,021	220	8,740	1,707,815
Mit.	631	567	1,539	797	13.9	94.3	460	554	91.3	124	215	37,900	1,515,155	1,553,055	3,020	220	8,740	1,702,763
% Reduced	27%	28%	1%	61%	1%	2%	—	< 0.5%	2%	—	1%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	652	588	1,628	801	13.9	94.3	460	554	91.3	124	215	37,900	1,515,733	1,553,633	3,020	220	8,575	1,703,201
Mit.	630	566	1,628	801	13.9	94.3	460	554	91.3	124	215	37,900	1,515,733	1,553,633	3,020	220	8,575	1,703,201
% Reduced	3%	4%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	696	656	1,589	1,134	13.0	54.6	458	513	52.8	123	176	31,158	1,504,82	1,535,97	2,989	220	8,644	1,684,80
Mit.	567	535	1,584	514	13.0	53.5	458	512	52.0	123	175	31,158	1,502,33 ₇	1,533,49 ₆	2,989	220	8,644	1,682,31 ₆
% Reduced	18%	18%	< 0.5%	55%	< 0.5%	2%	—	< 0.5%	1%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	127	120	290	207	2.37	9.96	83.6	93.6	9.63	22.5	32.1	5,159	249,140	254,299	495	36.4	1,431	278,939
Mit.	103	97.6	289	93.8	2.36	9.77	83.6	93.4	9.49	22.5	32.0	5,159	248,729	253,888	495	36.4	1,431	278,527
% Reduced	18%	18%	< 0.5%	55%	< 0.5%	2%	—	< 0.5%	1%	—	< 0.5%	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

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	31.8	20.9	1,306	253	11.4	25.4	460	485	24.3	124	148	—	1,214,44 ₇	1,214,44 ₇	8.98	192	170	1,272,02 ₀
Area	814	756	29.8	1,623	1.34	54.7	—	54.7	52.3	—	52.3	8,695	21,879	30,574	41.2	0.07	—	31,626
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	869	789	1,549	2,053	14.0	96.4	460	556	92.9	124	216	37,900	1,520,18 ₉	1,558,08 ₉	3,021	220	8,740	1,707,81 ₅
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	30.3	19.5	1,395	257	11.4	25.5	460	485	24.4	124	148	—	1,215,02	1,215,02	8.91	192	4.40	1,272,45
Area	598	557	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	652	588	1,628	801	13.9	94.3	460	554	91.3	124	215	37,900	1,515,73 3	1,553,63 3	3,020	220	8,575	1,703,20 1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.2	20.3	1,366	255	11.4	25.4	458	484	24.3	123	148	—	1,214,69 0	1,214,69 0	8.95	192	73.3	1,272,17 7
Area	641	623	9.55	702	0.32	12.9	—	12.9	12.2	—	12.2	1,953	6,267	8,220	9.31	0.03	—	8,461
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	696	656	1,589	1,134	13.0	54.6	458	513	52.8	123	176	31,158	1,504,82 0	1,535,97 8	2,989	220	8,644	1,684,80 8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.69	3.71	249	46.5	2.08	4.64	83.6	88.3	4.44	22.5	26.9	—	201,106	201,106	1.48	31.8	12.1	210,623
Area	117	114	1.74	128	0.06	2.35	—	2.35	2.22	—	2.22	323	1,038	1,361	1.54	< 0.005	—	1,401
Energy	4.29	2.15	39.0	32.3	0.23	2.97	—	2.97	2.97	—	2.97	—	42,263	42,263	3.74	0.08	—	42,380
Water	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947
Waste	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419

Vegetati	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	630	566	1,628	801	13.9	94.3	460	554	91.3	124	215	37,900	28,592	1,515,733	1,553,633	3,020	220	8,575	1,703,201	28,592	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.2	20.3	1,366	255	11.4	25.4	458	484	24.3	123	148	—	1,214,690	1,214,690	8.95	192	73.3	1,272,177	28,592	—	—	—	—
Area	512	503	4.30	82.4	0.28	11.8	—	11.8	11.4	—	11.4	1,953	3,784	5,738	9.20	0.01	—	5,970	28,592	—	—	—	—
Energy	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979	28,592	—	—	—	—
Water	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000	28,592	—	—	—	—
Waste	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027	28,592	—	—	—	—
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	28,592	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592	28,592	—	—	—	—
Total	567	535	1,584	514	13.0	53.5	458	512	52.0	123	175	31,158	1,502,337	1,533,496	2,989	220	8,644	1,682,316	28,592	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.69	3.71	249	46.5	2.08	4.64	83.6	88.3	4.44	22.5	26.9	—	201,106	201,106	1.48	31.8	12.1	210,623	28,592	—	—	—	—
Area	93.5	91.8	0.79	15.0	0.05	2.16	—	2.16	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988	28,592	—	—	—	—
Energy	4.29	2.15	39.0	32.3	0.23	2.97	—	2.97	2.97	—	2.97	—	42,263	42,263	3.74	0.08	—	42,380	28,592	—	—	—	—
Water	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947	28,592	—	—	—	—
Waste	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435	28,592	—	—	—	—
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	28,592	—	—	—	—
Vegetati on	—	—	—	—	—	—	—	—	—	—	—	—	4,734	4,734	—	—	—	4,734	28,592	—	—	—	—
Total	103	97.6	289	93.8	2.36	9.77	83.6	93.4	9.49	22.5	32.0	5,159	248,729	253,888	495	36.4	1,431	278,527	28,592	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	29.4	19.1	1,246	229	11.0	24.6	445	470	23.6	120	143	—	1,173,780	1,173,780	8.50	185	164	1,229,421
Parking Lot	0.76	0.50	32.3	5.93	0.29	0.64	11.5	12.2	0.61	3.10	3.71	—	30,446	30,446	0.22	4.81	4.26	31,889
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.02	0.01	0.90	0.16	0.01	0.02	0.32	0.34	0.02	0.09	0.10	—	846	846	0.01	0.13	0.12	886
University/College (4yr)	0.05	0.03	2.24	0.41	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,114	2,114	0.02	0.33	0.30	2,215
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	0.00	0.00	0.00

Unenclo Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.01	0.01	0.45	0.08	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	423	423	< 0.005	0.07	0.06	443				
Gasolin e/Service Station	1.49	1.17	19.6	16.7	0.03	0.02	0.26	0.28	0.02	0.07	0.09	—	2,820	2,820	0.21	0.45	0.10	2,959				
Conveni ence Market (24 hour)	0.01	0.01	0.45	0.08	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	423	423	< 0.005	0.07	0.06	443				
Fast Food Restaurant with Drive Thru	0.03	0.02	1.12	0.21	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,057	1,057	0.01	0.17	0.15	1,107				
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.22	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.03	221				
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.22	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.03	221				
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00				
Strip Mall	0.05	0.03	2.24	0.41	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,114	2,114	0.02	0.33	0.30	2,214				
Total	31.8	20.9	1,306	253	11.4	25.4	460	485	24.3	124	148	—	1,214,44 7	1,214,44 7	8.98	192	170	1,272,02 0				
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				

Gasoline/Service Station	1.31	1.01	21.1	17.2	0.03	0.02	0.26	0.28	0.02	0.07	0.09	—	2,885	2,885	0.20	0.46	< 0.005	3,027
Convenience Market (24 hour)	0.01	0.01	0.48	0.08	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	423	423	< 0.005	0.07	< 0.005	443
Fast Food Restaurant with Drive Thru	0.03	0.02	1.20	0.21	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,058	1,058	0.01	0.17	< 0.005	1,108
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.24	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	222
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.24	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	222
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.05	0.03	2.40	0.42	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,115	2,115	0.02	0.33	0.01	2,215
Total	30.3	19.5	1,395	257	11.4	25.5	460	485	24.4	124	148	—	1,215,025	1,215,025	8.91	192	4.40	1,272,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Industrial Park	5.26	3.40	238	42.0	2.01	4.50	81.0	85.5	4.30	21.8	26.1	—	194,367	194,367	1.40	30.7	11.8	203,565
Parking Lot	0.14	0.09	6.17	1.09	0.05	0.12	2.10	2.22	0.11	0.56	0.68	—	5,042	5,042	0.04	0.80	0.30	5,280
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	< 0.005	< 0.005	0.17	0.03	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	140	140	< 0.005	0.02	0.01	147
University/College (4yr)	0.01	0.01	0.43	0.08	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	350	350	< 0.005	0.06	0.02	367
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	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.0	70.0	< 0.005	0.01	< 0.005	73.3
Gasoline/Service Station	0.26	0.20	3.69	3.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	471	471	0.03	0.07	0.01	495
Convenience Market (24 hour)	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.0	70.0	< 0.005	0.01	< 0.005	73.3

Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.21	0.04	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	175	175	< 0.005	0.03	0.01	183
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	< 0.005	36.7
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	< 0.005	36.7
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.01	0.01	0.43	0.08	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	350	350	< 0.005	0.06	0.02	367
Total	5.69	3.71	249	46.5	2.08	4.64	83.6	88.3	4.44	22.5	26.9	—	201,106	201,106	1.48	31.8	12.1	210,623

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Industrial Park	29.4	19.1	1,246	229	11.0	24.6	445	470	23.6	120	143	—	1,173,78	1,173,78	8.50	185	164	1,229,42
Parking Lot	0.76	0.50	32.3	5.93	0.29	0.64	11.5	12.2	0.61	3.10	3.71	—	30,446	30,446	0.22	4.81	4.26	31,889
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.02	0.01	0.90	0.16	0.01	0.02	0.32	0.34	0.02	0.09	0.10	—	846	846	0.01	0.13	0.12	886
University/College (4yr)	0.05	0.03	2.24	0.41	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,114	2,114	0.02	0.33	0.30	2,215
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	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.01	0.01	0.45	0.08	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	423	423	< 0.005	0.07	0.06	443
Gasoline/Service Station	1.49	1.17	19.6	16.7	0.03	0.02	0.26	0.28	0.02	0.07	0.09	—	2,820	2,820	0.21	0.45	0.10	2,959
Convenience Market (24 hour)	0.01	0.01	0.45	0.08	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	423	423	< 0.005	0.07	0.06	443

Fast Food Restaurant with Drive Thru	0.03	0.02	1.12	0.21	0.01	0.02	0.40	0.42	0.02	0.11	0.13	—	1,057	1,057	0.01	0.17	0.15	1,107
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.22	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.03	221
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.22	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	211	211	< 0.005	0.03	0.03	221
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.05	0.03	2.24	0.41	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,114	2,114	0.02	0.33	0.30	2,214
Total	31.8	20.9	1,306	253	11.4	25.4	460	485	24.3	124	148	—	1,214,447	1,214,447	8.98	192	170	1,272,020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	28.0	17.9	1,331	233	11.0	24.6	445	470	23.6	120	143	—	1,174,278	1,174,278	8.44	186	4.26	1,229,780
Parking Lot	0.73	0.46	34.5	6.03	0.29	0.64	11.5	12.2	0.61	3.10	3.71	—	30,459	30,459	0.22	4.81	0.11	31,899

High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.24	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	222
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.24	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	212	212	< 0.005	0.03	< 0.005	222
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.05	0.03	2.40	0.42	0.02	0.04	0.80	0.85	0.04	0.22	0.26	—	2,115	2,115	0.02	0.33	0.01	2,215
Total	30.3	19.5	1,395	257	11.4	25.5	460	485	24.4	124	148	—	1,215,025	1,215,025	8.91	192	4.40	1,272,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	5.26	3.40	238	42.0	2.01	4.50	81.0	85.5	4.30	21.8	26.1	—	194,367	194,367	1.40	30.7	11.8	203,565
Parking Lot	0.14	0.09	6.17	1.09	0.05	0.12	2.10	2.22	0.11	0.56	0.68	—	5,042	5,042	0.04	0.80	0.30	5,280
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	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Office Park	< 0.005	< 0.005	0.17	0.03	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	140	140	< 0.005	0.02	0.01	147
University/College (4yr)	0.01	0.01	0.43	0.08	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	—	350	350	< 0.005	0.06	0.02	367
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	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.0	70.0	< 0.005	0.01	< 0.005	73.3
Gasoline/Service Station	0.26	0.20	3.69	3.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	471	471	0.03	0.07	0.01	495
Convenience Market (24 hour)	< 0.005	< 0.005	0.09	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.0	70.0	< 0.005	0.01	< 0.005	73.3
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.21	0.04	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	175	175	< 0.005	0.03	0.01	183
High Turnover (Sit Down Restaurant)	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	< 0.005	36.7
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	35.0	35.0	< 0.005	0.01	< 0.005	36.7

Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.01	0.01	0.43	0.08	< 0.005	0.01	0.15	0.01	0.04	0.05	—	350	350	< 0.005	0.06	0.02	367	
Total	5.69	3.71	249	46.5	2.08	4.64	83.6	4.44	22.5	26.9	—	201,106	201,106	1.48	31.8	12.1	210,623	

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other — Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Hotel —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Gasoline Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	0.00

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049

Industrial Park	21.0	10.5	191	161	1.15	14.5	—	14.5	—	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	—	0.05	—	0.05	—	860	860	0.08	< 0.005	—	863
University/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	—	0.99	—	0.99	—	15,511	15,511	1.37	0.03	—	15,554
Apartments Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	—	0.45	—	0.45	—	7,072	7,072	0.63	0.01	—	7,092
Unenclosed Parking with Elevator	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
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	—	0.04	—	0.04	—	615	615	0.05	< 0.005	—	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	—	0.02	—	0.02	—	266	266	0.02	< 0.005	—	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	—	< 0.005	—	77.5	77.5	0.01	< 0.005	—	77.7

Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	533
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.4	66.4	0.01	< 0.005	—	66.6
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	—	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industria l Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	—	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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

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	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.08	0.08	< 0.005	—	863	863
University/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	15,511	15,511	0.03	—	15,554	15,554
Apartments Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	7,072	7,072	0.01	—	7,092	7,092
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	615	615	< 0.005	—	616	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	266	266	< 0.005	—	266	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	77.5	77.5	< 0.005	—	77.7	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	531	531	< 0.005	—	533	533

High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	—	0.03	—	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	0.01	—	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	66.4	66.4	0.01	< 0.005	—	66.6
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	0.01	—	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	16.3	16.3	—	255,271	255,271	22.6	0.48	—	255,979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	17.6	17.6	< 0.005	< 0.005	—	17.7
Government Office Building	0.02	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	0.01	—	173	173	0.02	< 0.005	—	174
Industrial Park	3.84	1.92	34.9	29.3	0.21	2.65	—	2.65	2.65	2.65	—	37,797	37,797	3.35	0.07	—	37,902
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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

Office Park	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	—	142	142	0.01	< 0.005	—	143
University/College (4yr)	0.26	0.13	2.37	1.99	0.01	0.18	—	0.18	—	2,568	2,568	0.23	< 0.005	—	2,575
Apartments Mid Rise	0.12	0.06	1.02	0.43	0.01	0.08	—	0.08	—	1,171	1,171	0.10	< 0.005	—	1,174
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	—	102	102	0.01	< 0.005	—	102
Gasoline/Service Station	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	—	44.0	44.0	< 0.005	< 0.005	—	44.1
Convenience Market (24 hour)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	—	12.9
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	—	88.2
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	—	90.5	90.5	0.01	< 0.005	—	90.8
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	—	25.9	25.9	< 0.005	< 0.005	—	25.9

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	0.01	< 0.005	—	107
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,046	1,046	0.09	< 0.005	—	1,049
Industria l Park	21.0	10.5	191	161	1.15	14.5	—	14.5	14.5	—	14.5	—	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	—	0.05	0.05	—	0.05	—	860	860	0.08	< 0.005	—	863

Universit (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	0.99	0.99	—	0.99	—	15,511	15,511	1.37	0.03	—	15,554
Apartment Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	0.45	0.45	—	0.45	—	7,072	7,072	0.63	0.01	—	7,092
Unenclosed Parking with Elevator	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
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	0.04	0.04	—	0.04	—	615	615	0.05	< 0.005	—	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	0.02	0.02	—	0.02	—	266	266	0.02	< 0.005	—	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	77.5	77.5	0.01	< 0.005	—	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	0.03	0.03	—	0.03	—	531	531	0.05	< 0.005	—	533
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	0.03	0.03	—	0.03	—	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	0.01	0.01	—	0.01	—	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	66.4	66.4	0.01	< 0.005	—	66.6

Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	—	0.01	—	0.01	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	—	16.3	—	16.3	255,271	255,271	22.6	0.48	—	255,979
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	—	0.01	106	106	0.01	< 0.005	—	107
Govern ment Office Building	0.10	0.05	0.88	0.74	0.01	0.07	—	0.07	—	0.07	1,046	1,046	0.09	< 0.005	—	1,049
Industria l Park	21.0	10.5	191	161	1.15	14.5	—	14.5	—	14.5	228,295	228,295	20.2	0.43	—	228,929
Parking Lot	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
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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Office Park	0.08	0.04	0.72	0.61	< 0.005	0.05	—	0.05	—	0.05	860	860	0.08	< 0.005	—	863
Universit y/College (4yr)	1.43	0.71	13.0	10.9	0.08	0.99	—	0.99	—	0.99	15,511	15,511	1.37	0.03	—	15,554
Apartme nts Mid Rise	0.65	0.33	5.57	2.37	0.04	0.45	—	0.45	—	0.45	7,072	7,072	0.63	0.01	—	7,092

Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	0.06	0.03	0.52	0.43	< 0.005	0.04	0.04	0.04	0.04	—	0.04	0.04	0.04	—	0.00	615	615	0.05	< 0.005	—	616
Gasoline/Service Station	0.02	0.01	0.22	0.19	< 0.005	0.02	0.02	0.02	0.02	—	0.02	0.02	0.02	—	0.00	266	266	0.02	< 0.005	—	266
Convenience Market (24 hour)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	0.00	77.5	77.5	0.01	< 0.005	—	77.7
Fast Food Restaurant with Drive Thru	0.05	0.02	0.45	0.37	< 0.005	0.03	0.03	0.03	0.03	—	0.03	0.03	0.03	—	0.00	531	531	0.05	< 0.005	—	533
High Turnover (Sit Down Restaurant)	0.05	0.03	0.46	0.38	< 0.005	0.03	0.03	0.03	0.03	—	0.03	0.03	0.03	—	0.00	547	547	0.05	< 0.005	—	548
Fast Food Restaurant w/o Drive Thru	0.01	0.01	0.13	0.11	< 0.005	0.01	0.01	0.01	0.01	—	0.01	0.01	0.01	—	0.00	156	156	0.01	< 0.005	—	157
Bank (with Drive-Through)	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	—	0.00	66.4	66.4	0.01	< 0.005	—	66.6
Strip Mall	0.01	0.01	0.10	0.09	< 0.005	0.01	0.01	0.01	0.01	—	0.01	0.01	0.01	—	0.00	121	121	0.01	< 0.005	—	122
Total	23.5	11.8	214	177	1.28	16.3	16.3	16.3	16.3	—	16.3	16.3	16.3	—	0.00	255,271	255,271	22.6	0.48	—	255,979
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Gasoline/Service Station	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	44.0	44.0	< 0.005	< 0.005	< 0.005	—	44.1
Convenience Market (24 hour)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	12.8	12.8	< 0.005	< 0.005	< 0.005	—	12.9
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.08	0.07	< 0.005	0.01	0.01	0.01	0.01	—	0.01	—	87.9	87.9	0.01	< 0.005	< 0.005	—	88.2
High Turnover (Sit Down Restaurant)	0.01	< 0.005	0.08	0.07	< 0.005	0.01	0.01	0.01	0.01	—	0.01	—	90.5	90.5	0.01	< 0.005	< 0.005	—	90.8
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	25.9	25.9	< 0.005	< 0.005	< 0.005	—	25.9
Bank (with Drive-Through)	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	—	11.0
Strip Mall	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	< 0.005	—	20.1
Total	4.29	2.15	39.0	32.3	0.23	2.97	2.97	2.97	2.97	—	2.97	2.97	42,263	42,263	3.74	0.08	—	—	42,380

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	82.0	40.5	19.2	367	1.26	52.6	—	—	50.7	—	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	—	—	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	38.3	38.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	216	199	10.6	1,256	0.07	2.11	—	—	1.60	—	1.60	—	1.60	—	5,034	5,034	0.21	0.04	—	—	—	—	5,052
Total	814	756	29.8	1,623	1.34	54.7	—	—	52.3	—	52.3	—	52.3	8,695	21,879	30,574	41.2	0.07	—	—	—	—	31,626
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	82.0	40.5	19.2	367	1.26	52.6	—	—	50.7	—	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	—	—	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	38.3	38.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	598	557	19.2	367	1.26	52.6	—	—	50.7	—	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	—	—	—	26,574
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.36	1.66	0.79	15.0	0.05	2.16	—	—	2.08	—	2.08	—	2.08	323	627	950	1.52	< 0.005	—	—	—	—	988
Consumer Products	87.2	87.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	6.98	6.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	19.4	17.9	0.96	113	0.01	0.19	—	0.19	0.14	—	0.14	—	—	411	411	0.02	< 0.005	—	412
Total	117	114	1.74	128	0.06	2.35	—	2.35	2.22	—	2.22	323	1,038	1,361	1.54	< 0.005	—	1,401	

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	82.0	40.5	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	16.1	16.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	576	534	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	82.0	40.5	19.2	367	1.26	52.6	—	52.6	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Consumer Products	478	478	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	16.1	16.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	576	534	19.2	367	1.26	52.6	—	52.6	—	50.7	—	50.7	8,695	16,845	25,540	41.0	0.03	—	26,574
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3.36	1.66	0.79	15.0	0.05	2.16	—	2.16	—	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988
Consumer Products	87.2	87.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.94	2.94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	93.5	91.8	0.79	15.0	0.05	2.16	—	2.16	—	2.08	—	2.08	323	627	950	1.52	< 0.005	—	988

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.00	3.92	0.40	0.01	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.41	0.10	—	185
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,934	0.00	10,934	1,121	26.6	—	46,902
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	—	136
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	—	88.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	—	535
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.00	5.83	0.60	0.01	—	25.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.00	0.20	0.02	< 0.005	—	0.87
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.00	1.14	0.12	< 0.005	—	4.87
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.00	7.91	0.81	0.02	—	33.9

Other — Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	136
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	88.0
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	535
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.00	5.83	0.60	0.01	25.0
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.00	0.20	0.02	< 0.005	0.87
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.00	1.14	0.12	< 0.005	4.87
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.00	7.91	0.81	0.02	33.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	8.14	0.00	8.14	0.83	0.02	34.9

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.33	0.00	2.33	0.24	0.01	—	9.98
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	< 0.005	—	1.63
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.23	0.00	6.23	0.64	0.02	—	26.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	< 0.005	—	2.78
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.00	7.13	0.73	0.02	—	30.6
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,810	0.00	1,810	186	4.41	—	7,765
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.24	0.00	5.24	0.54	0.01	—	22.5

University/College	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	0.00	3.40	0.35	0.01	—	14.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6	0.00	20.6	2.12	0.05	—	88.6
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	< 0.005	—	4.14
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	< 0.005	—	0.14
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	< 0.005	—	0.81
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	1.31	0.00	1.31	0.13	< 0.005	—	5.62
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.35	0.00	1.35	0.14	< 0.005	—	5.78
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.00	0.39	0.04	< 0.005	—	1.65
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	< 0.005	—	0.27

Strip Mall	—	—	—	—	—	—	—	—	—	—	1.03	0.00	1.03	0.11	< 0.005	—	4.43
Total	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	7,947

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.92	0.00	3.92	0.40	0.01	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.41	0.10	—	185
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,934	0.00	10,934	1,121	26.6	—	46,902
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	—	136

University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	—	88.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	—	535
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.00	5.83	0.60	0.01	—	25.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.00	0.20	0.02	< 0.005	—	0.87
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.00	1.14	0.12	< 0.005	—	4.87
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.00	7.91	0.81	0.02	—	33.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	8.14	0.00	8.14	0.83	0.02	—	34.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	2.33	0.00	2.33	0.24	0.01	—	9.98
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	< 0.005	—	1.63

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.23	0.00	6.23	0.64	0.02	—	26.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,190	0.00	11,190	1,147	27.3	—	48,000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.92	0.00	3.92	0.40	0.01	—	16.8
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43.1	0.00	43.1	4.41	0.10	—	185
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10,934	0.00	10,934	1,121	26.6	—	46,902
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.25	0.08	—	136
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.5	0.00	20.5	2.10	0.05	—	88.0
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	125	0.00	125	12.8	0.30	—	535

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.83	0.60	0.01	—	25.0
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.02	< 0.005	—	0.87
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.14	0.12	< 0.005	—	4.87
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.91	0.81	0.02	—	33.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.14	0.83	0.02	—	34.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.33	0.24	0.01	—	9.98
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.04	< 0.005	—	1.63
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.23	0.64	0.02	—	26.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11,190	1,147	27.3	—	48,000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.00	0.65	0.07	< 0.005	—	2.78
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	7.13	0.00	7.13	0.73	0.02	—	30.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	1,810	0.00	1,810	186	4.41	—	7,765
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	5.24	0.00	5.24	0.54	0.01	—	22.5
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	3.40	0.00	3.40	0.35	0.01	—	14.6
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	20.6	0.00	20.6	2.12	0.05	—	88.6
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	< 0.005	—	4.14

Gasoline Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.00	0.03	< 0.005	< 0.005	< 0.005	—	0.14
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.19	0.00	0.19	0.02	< 0.005	< 0.005	—	0.81
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	1.31	0.00	1.31	0.13	< 0.005	< 0.005	—	5.62
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	1.35	0.00	1.35	0.14	< 0.005	< 0.005	—	5.78
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.00	0.39	0.04	< 0.005	< 0.005	—	1.65
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	< 0.005	< 0.005	—	0.27
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	1.03	0.00	1.03	0.11	< 0.005	< 0.005	—	4.43
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	1,853	0.00	1,853	190	4.51	—	—	7,947

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
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Gasolin Station	—	—	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.13
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	0.00	13.0	1.30	0.00	—	45.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	0.00	84.4	8.44	0.00	—	295
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	89.8	0.00	89.8	8.97	0.00	—	314
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	24.8	0.00	24.8	2.48	0.00	—	86.9
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	2.51	0.00	2.51	0.25	0.00	—	8.80
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	24.8	0.00	24.8	2.48	0.00	—	86.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	18,015	0.00	18,015	1,800	0.00	—	63,027
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	56.7	0.00	56.7	5.67	0.00	—	198

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	16,490	0.00	16,490	1,648	0.00	—	57,693
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	9.11	0.00	9.11	0.91	0.00	—	31.9
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	46.6	0.00	46.6	4.66	0.00	—	163
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	638	0.00	638	63.7	0.00	—	2,231
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	35.4	0.00	35.4	3.54	0.00	—	124
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.13
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	0.00	13.0	1.30	0.00	—	45.3

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.72	0.00	7.72	0.77	0.00	27.0
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.4	0.00	81.4	8.14	0.00	285
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	369
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	20.5
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	1.35
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.15	0.00	2.15	0.21	0.00	7.51
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	48.9

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.0
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.76	0.00	5.76	0.58	0.00	—	20.2
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	56.7	0.00	56.7	5.67	0.00	—	198
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	16,490	0.00	16,490	1,648	0.00	—	57,693
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other — Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	46.6	4.66	0.00	—	163
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	492	49.2	0.00	—	1,721
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	638	63.7	0.00	—	2,231
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	35.4	3.54	0.00	—	124
Gasolin e/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	—	2.32	0.23	0.00	—	8.13
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	13.0	1.30	0.00	—	45.3
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	84.4	8.44	0.00	—	295
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	89.8	8.97	0.00	—	314

University/College	—	—	—	—	—	—	—	—	—	—	—	—	81.4	0.00	81.4	8.14	0.00	—	285
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	369
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	5.86	0.00	5.86	0.59	0.00	—	20.5
Gasoline/Service Station	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.35
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	2.15	0.00	2.15	0.21	0.00	—	7.51
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	14.0	0.00	14.0	1.40	0.00	—	48.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	14.9	0.00	14.9	1.49	0.00	—	52.0
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.41	—	14.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	2,983	2,983	298	10,435

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)

[illegible]

[illegible]

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.33	5.33
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.8	93.8
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,659	1,659
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9	21.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.25	6.25
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571

[illegible]

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.04	1.04
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,419	1,419

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,752	6,752
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23

University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.33	5.33
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.8	93.8
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,659	1,659
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9	21.9
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.25	6.25
Bank (with Drive-Through)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8,571	8,571
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.28	0.28
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,752	6,752
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.23	0.23
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.33	5.33
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.0	11.0
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	93.8	93.8
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,659	1,659
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.3	21.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.9	21.9

[illegible]

[illegible]

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

[illegible]

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	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)

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241

[illegible]

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

[illegible]

[illegible]

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,811	7,811	—	—	—	7,811
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,293	1,293	—	—	—	1,293

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241

[illegible]

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	11,103	11,103	11,103	4,052,599	488,532	488,532	488,532	178,314,337
Parking Lot	288	288	288	105,118	12,672	12,672	12,672	4,625,185
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	8.00	8.00	8.00	2,920	352	352	352	128,478
University/College (4yr)	20.0	20.0	20.0	7,300	880	880	880	321,200
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	4.00	4.00	4.00	1,460	176	176	176	64,234
Gasoline/Service Station	1,440	1,440	1,440	525,600	288	288	288	105,120
Convenience Market (24 hour)	4.00	4.00	4.00	1,460	176	176	176	64,240
Fast Food Restaurant with Drive Thru	10.00	10.00	10.00	3,650	440	440	440	160,599
High Turnover (Sit Down Restaurant)	2.00	2.00	2.00	730	88.0	88.0	88.0	32,121

Fast Food Restaurant w/o Drive Thru	2.00	2.00	2.00	2.00	730	88.0	88.0	88.0	32,120
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	20.0	20.0	20.0	20.0	7,299	880	880	880	321,143

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Government Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Industrial Park	11,103	11,103	11,103	4,052,599	488,532	488,532	488,532	178,314,337
Parking Lot	288	288	288	105,118	12,672	12,672	12,672	4,625,185
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Office Park	8.00	8.00	8.00	2,920	352	352	352	128,478
University/College (4yr)	20.0	20.0	20.0	7,300	880	880	880	321,200
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hotel	4.00	4.00	4.00	1,460	176	176	176	64,234
Gasoline/Service Station	1,440	1,440	1,440	525,600	288	288	288	105,120
Convenience Market (24 hour)	4.00	4.00	4.00	1,460	176	176	176	64,240

Fast Food Restaurant with Drive Thru	10.00	10.00	10.00	10.00	3,650	440	440	440	160,599
High Turnover (Sit Down Restaurant)	2.00	2.00	2.00	2.00	730	88.0	88.0	88.0	32,121
Fast Food Restaurant w/o Drive Thru	2.00	2.00	2.00	2.00	730	88.0	88.0	88.0	32,120
Bank (with Drive-Through)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	20.0	20.0	20.0	20.0	7,299	880	880	880	321,143

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)								
Apartments Mid Rise	—								
Wood Fireplaces	0								
Gas Fireplaces	800								
Propane Fireplaces	0								
Electric Fireplaces	0								
No Fireplaces	800								
Conventional Wood Stoves	0								
Catalytic Wood Stoves	80								
Non-Catalytic Wood Stoves	80								
Pellet Wood Stoves	0								

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	800
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	800
Conventional Wood Stoves	0
Catalytic Wood Stoves	80
Non-Catalytic Wood Stoves	80
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3110400	1,036,800	39,663,586	13,220,498	1,614,159

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)	
General Office Building	240,687	0.00	0.0000	0.0000	331,994	
Government Office Building	2,367,108	0.00	0.0000	0.0000	3,265,086	
Industrial Park	516,431,380	0.00	0.0000	0.0000	712,343,077	
Parking Lot	5,887,866	0.00	0.0000	0.0000	0.00	
City Park	0.00	0.00	0.0000	0.0000	0.00	
Other Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00	
Other Non-Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00	
Office Park	1,946,428	0.00	0.0000	0.0000	2,684,819	
University/College (4yr)	8,066,932	0.00	0.0000	0.0000	48,397,263	
Apartments Mid Rise	7,228,498	0.00	0.0000	0.0000	22,067,987	
Unenclosed Parking with Elevator	985,173	0.00	0.0000	0.0000	0.00	
Hotel	367,683	0.00	0.0000	0.0000	1,917,419	
Gasoline/Service Station	206,599	0.00	0.0000	0.0000	829,172	
Convenience Market (24 hour)	409,734	0.00	0.0000	0.0000	241,901	
Fast Food Restaurant with Drive Thru	546,089	0.00	0.0000	0.0000	1,657,172	
High Turnover (Sit Down Restaurant)	562,151	0.00	0.0000	0.0000	1,705,912	
Fast Food Restaurant w/o Drive Thru	160,614	0.00	0.0000	0.0000	487,403	
Bank (with Drive-Through)	51,650	0.00	0.0000	0.0000	207,293	
Strip Mall	382,460	0.00	0.0000	0.0000	378,664	

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)
General Office Building	240,687	0.00	0.0000	0.0000	331,994
Government Office Building	2,367,108	0.00	0.0000	0.0000	3,265,086
Industrial Park	516,431,380	0.00	0.0000	0.0000	712,343,077
Parking Lot	5,887,866	0.00	0.0000	0.0000	0.00
City Park	0.00	0.00	0.0000	0.0000	0.00
Other Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.0000	0.0000	0.00
Office Park	1,946,428	0.00	0.0000	0.0000	2,684,819
University/College (4yr)	8,066,932	0.00	0.0000	0.0000	48,397,263
Apartments Mid Rise	7,228,498	0.00	0.0000	0.0000	22,067,987
Unenclosed Parking with Elevator	985,173	0.00	0.0000	0.0000	0.00
Hotel	367,683	0.00	0.0000	0.0000	1,917,419
Gasoline/Service Station	206,599	0.00	0.0000	0.0000	829,172
Convenience Market (24 hour)	409,734	0.00	0.0000	0.0000	241,901
Fast Food Restaurant with Drive Thru	546,089	0.00	0.0000	0.0000	1,657,172
High Turnover (Sit Down Restaurant)	562,151	0.00	0.0000	0.0000	1,705,912
Fast Food Restaurant w/o Drive Thru	160,614	0.00	0.0000	0.0000	487,403
Bank (with Drive-Through)	51,650	0.00	0.0000	0.0000	207,293
Strip Mall	382,460	0.00	0.0000	0.0000	378,664

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	2,043,938	0.00
Government Office Building	22,468,410	0.00
Industrial Park	5,706,093,750	84,140,425
Parking Lot	0.00	484,932
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Office Park	16,529,239	354,059
University/College (4yr)	10,705,500	39,553,323
Apartments Mid Rise	65,078,040	0.00
Unenclosed Parking with Elevator	0.00	0.00
Hotel	3,044,012	218,317
Gasoline/Service Station	106,255	103,895
Convenience Market (24 hour)	592,580	296,343
Fast Food Restaurant with Drive Thru	4,128,058	503,782
High Turnover (Sit Down Restaurant)	4,249,472	518,604
Fast Food Restaurant w/o Drive Thru	1,214,135	148,165
Bank (with Drive-Through)	198,115	185,220
Strip Mall	3,251,784	743,785

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	2,043,938	0.00
Government Office Building	22,468,410	0.00
Industrial Park	5,706,093,750	84,140,425

Parking Lot	0.00	484,932
City Park	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Office Park	16,529,239	354,059
University/College (4yr)	10,705,500	39,553,323
Apartments Mid Rise	65,078,040	0.00
Unenclosed Parking with Elevator	0.00	0.00
Hotel	3,044,012	218,317
Gasoline/Service Station	106,255	103,895
Convenience Market (24 hour)	592,580	296,343
Fast Food Restaurant with Drive Thru	4,128,058	503,782
High Turnover (Sit Down Restaurant)	4,249,472	518,604
Fast Food Restaurant w/o Drive Thru	1,214,135	148,165
Bank (with Drive-Through)	198,115	185,220
Strip Mall	3,251,784	743,785

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Government Office Building	105	—
Industrial Park	30,597	—
Parking Lot	0.00	—
City Park	16.9	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—

Office Park	86.5	—
University/College (4yr)	913	—
Apartments Mid Rise	1,183	—
Unenclosed Parking with Elevator	0.00	—
Hotel	65.7	—
Gasoline/Service Station	4.31	—
Convenience Market (24 hour)	24.0	—
Fast Food Restaurant with Drive Thru	157	—
High Turnover (Sit Down Restaurant)	167	—
Fast Food Restaurant w/o Drive Thru	46.1	—
Bank (with Drive-Through)	4.67	—
Strip Mall	46.1	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	10.7	—
Government Office Building	105	—
Industrial Park	30,597	—
Parking Lot	0.00	—
City Park	16.9	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Office Park	86.5	—
University/College (4yr)	913	—
Apartments Mid Rise	1,183	—
Unenclosed Parking with Elevator	0.00	—
Hotel	65.7	—
Gasoline/Service Station	4.31	—

Convenience Market (24 hour)	24.0	—	—
Fast Food Restaurant with Drive Thru	157	—	—
High Turnover (Sit Down Restaurant)	167	—	—
Fast Food Restaurant w/o Drive Thru	46.1	—	—
Bank (with Drive-Through)	4.67	—	—
Strip Mall	46.1	—	—

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
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
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
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
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
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
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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

Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
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
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
University/College (4yr)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
University/College (4yr)	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
University/College (4yr)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
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
Convenience Market (24 hour)	Other commercial A/C and heat pumps	R-410A	2,088		< 0.005	4.00	4.00	18.0
Convenience Market (24 hour)	Supermarket refrigeration and condensing units	R-404A	3,922		26.5	16.5	16.5	18.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430		0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088		1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922		< 0.005	7.50	7.50	20.0
Bank (with Drive-Through)	Household refrigerators and/or freezers	R-134a	1,430		0.02	0.60	0.00	1.00
Bank (with Drive-Through)	Other commercial A/C and heat pumps	R-410A	2,088		< 0.005	4.00	4.00	18.0

Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Industrial Park	Cold storage	R-404A	3,922	0.38	0.07	0.07	25.0

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
Cropland	Inceptisols	1,577	0.00
Urban	Inceptisols	0.00	1,577

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
Cropland	Inceptisols	1,577	0.00
Urban	Inceptisols	0.00	1,577

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	1,577	0.00
Grassland	0.00	173
Urban	0.00	1,404

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
Broadleaf Forest	1,577	0.00
Grassland	0.00	173
Urban	0.00	1,404

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	22.1	annual days of extreme heat
Extreme Precipitation	0.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	19.7	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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	1	1	1	2
Drought	1	1	1	2
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	61.0
AQ-PM	26.8
AQ-DPM	15.7
Drinking Water	60.1
Lead Risk Housing	17.3
Pesticides	83.8
Toxic Releases	18.1
Traffic	25.4
Effect Indicators	—
CleanUp Sites	89.4
Groundwater	97.2
Haz Waste Facilities/Generators	99.4
Impaired Water Bodies	93.4
Solid Waste	93.2
Sensitive Population	—
Asthma	25.2
Cardio-vascular	50.6
Low Birth Weights	52.4
Socioeconomic Factor Indicators	—

Education	68.6
Housing	5.48
Linguistic	31.3
Poverty	21.3
Unemployment	45.8

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	76.83818812
Employed	76.27357885
Median HI	87.89939689
Education	—
Bachelor's or higher	55.29321186
High school enrollment	100
Preschool enrollment	5.222635699
Transportation	—
Auto Access	78.96830489
Active commuting	55.15205954
Social	—
2-parent households	47.76081098
Voting	78.15988708
Neighborhood	—
Alcohol availability	84.49890928
Park access	5.902733222
Retail density	2.746054151
Supermarket access	10.85589632

Tree canopy	64.58360067
Housing	—
Homeownership	65.75131528
Housing habitability	87.28345951
Low-inc homeowner severe housing cost burden	75.25984858
Low-inc renter severe housing cost burden	88.64365456
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	73.18105993
Arthritis	0.0
Asthma ER Admissions	60.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	51.5
Cognitively Disabled	82.5
Physically Disabled	52.4
Heart Attack ER Admissions	58.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	53.3
Elderly	75.9
English Speaking	47.9
Foreign-born	13.3
Outdoor Workers	22.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	13.8
Traffic Access	0.0
Other Indices	—
Hardship	42.3
Other Decision Support	—
2016 Voting	72.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	55.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	2057 RPS
Land Use	Land uses are based on Project-specific information.
Operations: Vehicle Data	Project trip lengths and rates derived from traffic study conducted by Fehr & Peers.
Operations: Fleet Mix	Truck-specific fleet mix.
Operations: Energy Use	—
Operations: Refrigerants	Refrigerant usage for Industrial Park based on Project-specific data.
Operations: Consumer Products	Refined consumer product emission factor based on San Joaquin County-specific consumer product usage and population projections.

APPENDIX B

STATE AND LOCAL CONSISTENCY ANALYSES

Table B-1. Consistency with Applicable State Renewable Energy and Energy Efficiency Strategies

Pacific Gateway
San Joaquin County, California

#	Plan	Category Description	Consistency Analysis
1	California Renewables Portfolio Standard (RPS) and SB 100	As most recently amended by SB 100 (2018), California's RPS increases the proportion of electricity from renewable sources to 33 percent renewable power by 2020; 50 percent renewable power by 2026; and, 60 percent renewable power by 2030. SB 350 (2015) also requires the State Energy Resources Conservation and Development Commission to double (by 2030) the energy efficiency savings in electricity and natural gas final end uses of retail customers through energy efficiency and conservation.	Consistent. The Project would be consistent with and not impair implementation of the state's RPS. The electricity for the operation of the Project would be supplied by Pacific Gas & Electric, which is composed of 33% renewable resources, and 100% greenhouse gas-free resources as of 2023. ¹
2	California Code of Regulations, Title 24, Part 6	Title 24, Part 6 of the California Code of Regulations establishes energy and water efficiency requirements for residential and non-residential new construction, additions to existing buildings, and alterations to existing buildings. Standards include requirements for water heating, HVAC, lighting, electrical systems, and solar design.	Consistent. The Project would meet or exceed the Title 24 energy efficiency standards in effect at the time of building permit application.
3	Assembly Bill 1109	The Lighting Efficiency And Toxics Reduction Act (AB 1109) requires a reduction in average statewide electrical energy consumption by not less than 50 percent from the 2007 levels for indoor residential lighting and not less than 25 percent from the 2007 levels for indoor commercial and outdoor lighting by 2018.	Consistent. The Project would meet the applicable requirements from AB 1109.
4	California Green (CalGreen) Building Standards Code Requirements	CalGreen establishes green building standards to meet the goals of AB 32. CalGreen includes standards for residential and nonresidential structures such as new buildings or portions of new buildings, additions and alterations, and all occupancies where no other state agency has the authority to adopt green building standards applicable to those occupancies. Standards include requirements for site development, indoor and outdoor water use, construction waste reduction, disposal and recycling and building maintenance and operation.	Consistent. To the extent applicable to the Project, the Project would meet the CalGreen Building Standards Code in effect at the time of building permit application.
Mobile Sources			
5	AB 1493 (Pavley Regulations)	Reduces GHG emissions in new passenger vehicles from model years 2012-2016 (Phase I) and model years 2017-2025 (Phase II). Also reduces gasoline consumption to a rate of 31 percent of 1990 gasoline consumption (and associated GHG emissions) by 2020.	Consistent. The Project would not impair implementation of the AB 1493 regulations.
6	Low Carbon Fuel Standard (LCFS)	Establishes protocols for measuring and reducing the life-cycle carbon intensity of transportation fuels and helps to establish use of alternative fuels.	Consistent. The Project would not conflict with implementation of the LCFS.
7	Advanced Clean Cars (ACC) Program	In 2012, the California Air Resources Board (CARB) adopted the ACC program to reduce criteria pollutant emissions and GHG emissions for model year vehicles 2015 through 2025. ACC includes the Low-Emission Vehicle (LEV) regulations that reduce criteria pollutants and GHG emissions from light- and medium-duty vehicles, and the Zero-Emission Vehicle (ZEV) regulations that require manufacturers to produce an increasing number of pure ZEVs (meaning battery electric and fuel cell electric vehicles), with provisions to also produce plug-in hybrid electric vehicles (PHEV) in the 2018 through 2025 model years. The final phase of ACC includes requirements for 2026 model years and beyond. This phase extends the existing manufacturer requirements to sell a certain number of vehicles as ZEVs and PHEVs, with 100% of sales in 2035 and beyond required to be made from ZEVs and PHEVs.	Consistent. The Project would not conflict with implementation of the ACC program.
8	SB 375	SB 375 establishes mechanisms for the development of regional targets for reducing passenger vehicle GHG emissions. Under SB 375, CARB is required, in consultation with the state's Metropolitan Planning Organizations, to set regional GHG reduction targets for the passenger vehicle and light-duty truck sector for 2020 and 2035.	Consistent. The Project would not conflict with the implementation of SB 375. Furthermore, the Project would be consistent with the goals of the San Joaquin Valley Council of Government's (SJV COG's) Regional Transportation Plan/Sustainable Communities Strategy, which demonstrates how the SJV region under SJV COG's jurisdiction will meet the emission reduction targets of SB 375.

References:

¹ Pacific Gas & Electric 2024 Corporate Sustainability Report. Available at: https://www.pgecorp.com/assets/pgecorp/csr/csr_2024/assets/pge-csr-2024.pdf. Accessed: January 2025.

Abbreviations:

AB - Assembly Bill
CalGreen - California Green Building Standards Code
RPS - Renewable Portfolio Standard
SB - Senate Bill
SJV COG - San Joaquin Valley Council of Government

Table B-2. Consistency with San Joaquin County General Plan

Pacific Gateway
San Joaquin County, California

#	General Plan Policy Name	General Plan Policy Description	Consistency Analysis
LU-1.1	Compact Growth and Development	The County shall discourage urban sprawl and promote compact development patterns, mixed-use development, and higher development intensities that conserve agricultural land resources, protect habitat, support transit, reduce vehicle trips, improve air quality, make efficient use of existing infrastructure, encourage healthful, active living, conserve energy and water, and diversify San Joaquin County's housing stock.	Consistent. The Project will include mixed-use development, including a number of land uses including but not limited to: Business Park, University, Commercial Retail Uses, and Parks/Open Spaces. The Proposed Project will attract a wide variety of development that will generate construction and permanent jobs and provide for workforce and business development within San Joaquin County and the surrounding communities. This will in turn contribute to a vibrant workplace in the San Joaquin Valley. Additionally, transit service is not currently provided to the area, the project plans to extend public transit service to the project site. This will include expanding San Joaquin RTD fixed-route bus service to the project site. Additionally, an Altamont Commuter Express (ACE) train station is situated on Tracy Boulevard at Linne Road (two miles north of the project).
LU-2.2	Sustainable Building Practices	The County shall promote and, where appropriate, require sustainable building practices that incorporate a "whole system" approach to designing and constructing buildings that consume less energy, water and other resources, facilitate natural ventilation, use daylight effectively, and are healthy, safe, comfortable, and durable.	Consistent. The Project will implement strategies and build infrastructure to promote the efficient use of resources, which includes but is not limited to: - Consistency with CalGreen Building Standards Code in effect at the time of building permit application, which would include a number of energy saving requirements. - Design of the site will reduce the mass grading to the extent feasible and decrease the use of earth moving equipment needed to grade the site, which leads to a reduction in total emissions from construction equipment and dust. - Site planning and building design should consider building orientation, window placements, and materials selection to assist in minimizing energy use - Energy efficient LED lighting and control systems will be utilized for buildings, traffic, street, and any other outdoor lighting. - Buildings shall be designed to accept roof-mounted solar panels affording tenants/users the opportunity to utilize solar energy. - Where warehouse spaces are required to be climate controlled, install insulated dock doors and dock door seals to reduce energy loss. - Section warehouse spaces by temperature and group cool and warm temperature spaces together to decrease energy usage. - Lighting levels for outdoor illumination will be required to meet the minimum standards required for safety. All exterior lighting will be required to be LED and controlled by timers, and unless otherwise required, only lighting required for parking lot security and safety will be provided at night. - The use of daylight or clerestory windows and roof skylights will be utilized as a means of providing natural light and reducing the need for lighting during daytime. - Light colored "cool" roofs will be required for all new buildings, which helps to reduce heat gain and conserve energy use. - Canopies, awnings, and architectural shade structures will also be encouraged on the south and west elevations to minimize heat gain. - Tree species will be chosen based on their large canopy characteristics at maturity and will be strategically placed on the west and east portions of the site to shade paving areas and building elevations to reduce sun exposure and minimize heat gain.
LU-3.11	Solar Access	The County shall encourage new residential subdivisions and new commercial, office, industrial, and public buildings to be oriented and landscaped to enhance natural lighting and solar access in order to maximize energy efficiency.	Consistent. The Project will implement the use of daylight or clerestory windows and roof skylights will be utilized as a means of providing natural light and reducing the need for lighting during daytime.
LU-6.8	Sustainable Technologies	The County shall encourage all employment and industrial projects to incorporate sustainable technologies including energy and water efficient practices.	Consistent. The Project will use sustainable technologies, including energy and water efficient practices where available. This includes the use of high-efficiency irrigation systems and designing buildings to include energy efficient appliances, building systems, and HVAC control systems.
ED-2.4	Green Economy	The County shall encourage the development and expansion of industries and businesses that rely on environmentally-sustainable products and services, such as renewable energy, green building, clean transportation, water conservation, waste management and recycling, and sustainable land management.	Consistent. The Project will implement strategies and build infrastructure to promote the efficient use of resources, including the use of recycled water generated from the treated wastewater for landscape irrigation, consideration of locally sourced, salvaged, and recycled materials for use throughout the landscape and hardscape design, and design of buildings to accept roof-mounted solar allowing tenants/users the opportunity to utilize solar energy.
PHS-5.14	Energy Consumption Reduction	The County shall encourage new development to incorporate green building practices and reduce air quality impacts from energy consumption.	Consistent. As noted for NCR-5.1.1 , the Project will meet the CalGreen Building Standards Code in effect at the time of building permit application, which would include a number of energy saving requirements.

Table B-2. Consistency with San Joaquin County General Plan

Pacific Gateway

San Joaquin County, California

#	General Plan Policy Name	General Plan Policy Description	Consistency Analysis
NCR-5.1	Nonrenewable Energy and Energy Efficiency	The County shall support the efforts of residents, businesses, and energy providers to reduce the consumption of nonrenewable energy and shall promote energy providers' programs to increase energy efficiency and implement demand response programs.	Consistent. The Project would support reduced energy consumption and increased energy efficiency through green building practices, as discussed in PHS-5.14, LU-2.2, and NCR-5.11 .
NCR-5.11	Green Building Practices	The County shall encourage green building practices in new construction.	Consistent. The Project will comply with the applicable requirements in the Green Building Code, which include the following: • Reducing water consumption by 20 percent • Diverting 50 percent of construction waste from landfills • Installation of low pollutant-emitting materials • Installation of separate water meters for nonresidential buildings' indoor and outdoor water use • Moisture-sensing irrigation systems for larger landscape projects • Mandatory inspections of energy systems (e.g., heat furnace, air conditioner and mechanical equipment) for nonresidential buildings over 10,000 square feet to ensure that all are working at their maximum capacity and design efficiencies. In addition, the Project buildings will be LEED compliant and encouraged to become certified.
NCR-5.14	Natural Daylighting in Commercial Operations	The County shall encourage commercial and employment operations to incorporate natural daylighting by the use of windows and skylights to reduce energy demand for lighting.	Consistent. The Project would use daylight or clerestory windows and roof skylights as a means of providing natural light and reducing the need for lighting during daytime.
NCR-5.2	Alternative Energy	The County shall encourage residents, businesses, and energy providers to develop and use alternative, renewable energy sources, including but not limited to, biomass, solar, wind, and geothermal.	Consistent. The Project buildings shall be designed to accept roof-mounted solar panels affording tenants/users the opportunity to utilize solar energy, with a mitigation measure requiring the installation of solar to cover base building needs at industrial zoned buildings.

References:

San Joaquin County. County Wide General Plan 2035. Available here: <https://www.sjgov.org/commdev/cgi-bin/cdyn.exe?grp=planning&htm=gp2035>. Accessed: January 2025.

Abbreviations:

ACE - Altamont Commuter Express

HVAC - heating, ventilation, and air conditioning

LED - light emitting diode

LEED - Leadership in Energy and Environmental Design

RTD - Regional Transportation District

Table B-3. Consistency with San Joaquin County Regional Transportation Plan/Sustainable Communities Strategy
Pacific Gateway
San Joaquin County, California

#	Goal	Strategy	Consistency Analysis
1	Enhance the environment for existing and future generations and conserve energy.	Strategy No. 1: Encourage efficient development patterns that maintain agricultural viability and natural resources.	Consistent. The Project will include parks and open spaces throughout the Project area. In addition, the Project will include sustainable design practices for landscape, which will include the use of native and climate adapted plant species, high efficiency weather-based irrigation systems, locally sourced and recycled materials, and stormwater best management practices. Water use for landscape irrigation is also in the forefront of current design practices and guidelines have been included to address water conservation. This approach to the design will create a contemporary landscape that is attractive, yet resource-efficient and relatively low-maintenance.
		Strategy No. 2: Encourage preservation of natural resources.	Consistent. The Project will include parks and open spaces throughout the Project area and will be well-connected via pedestrian and bicycle networks. Typically, these areas will include exercise stations, picnic areas, sitting areas, concession/food truck service areas, natural areas, and trails.
		Strategy No. 3: Enhance the connection between land use and transportation choices through projects supporting energy and water efficiency.	Consistent. The Project will implement strategies and build infrastructure to promote the efficient use of resources, including the use of recycled water generated from the treated wastewater for landscape irrigation, consideration of locally sourced, salvaged, and recycled materials for use throughout the landscape and hardscape design, and design of buildings to accommodate the installation of roof-mounted solar. The Project has also committed to incorporating solar photo voltaic (PV) panels sized to accommodate "base building" energy needs for limited industrial zoned buildings, as described in Section 1.3 of the Greenhouse Gas Emissions Technical Report. Additionally, the Project will meet the CalGreen Building Standards Code in effect at the time of building permit application, which would include a number of energy saving requirements.
		Strategy No. 4: Improve air quality by reducing transportation-related emissions.	Consistent. The Project will implement of a Voluntary Commute Trip Reduction (CTR) program. Required elements of the program include: • Commute Trip Reduction Marketing - implements a marketing strategy to promote the project site employer's CTR program (which includes a guaranteed ride home program). • Ridesharing Program - implements a ridesharing program and establishes a permanent transportation management association with funding requirements for employers. • Subsidized or Discounted Transit Program - provides subsidized or discounted, or free transit passes for employees. • End-of-Trip Bicycle Facilities - installs and maintains end-of-trip facilities (including bike parking, bike lockers, showers, and personal lockers) for employee use. • Employer-Sponsored Vanpool - implements an employer-sponsored vanpool service for employee groups of 5 to 15 people. Additionally, the Project will establish pedestrian and bicycle circulation system within the Project site to encourage employee wellness and provide non-vehicle alternatives.
4	Preserve the efficiency of the existing transportation system.	Strategy No. 12: Prioritize projects that make more efficient use of the existing road network.	Consistent. While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 13: Support the continued maintenance and preservation of the existing transportation system.	Consistent. While specific off-site improvements have not been identified, the following upgrades are anticipated: • Improved California State Route 132/Chrisman Road interchange • New Interstate 580/Tracy Boulevard interchange (potential improvement)
		Strategy No. 14: Promote electric power, alternative fuels and autonomous technologies for freight and agriculture.	Consistent. While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 15: Manage the adoption of electric vehicles and private connected and autonomous vehicles.	Consistent. The Project will provide preferential parking space locations for electric vehicles and other clean air vehicles in all parking structures and lots to encourage energy-efficient vehicular use.
		Strategy No. 16: Promote electric power, alternative fuels, and autonomous technologies for public transit.	Consistent. While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.

Notes:

San Joaquin Council of Governments. 2022 Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS). Available here: <https://www.sjco.org/608/Adopted-2022-RTPSCS-Plan>. Accessed: January 2025.

Abbreviations:

ACE - Altamont Commuter Express
COG - Council of Governments
CTR - Commute Trip Reduction
SCS - Sustainable Communities Strategy
SJV - San Joaquin Valley
RTD - Regional Transportation District
RTP - Regional Transportation Plan