APPENDIX E

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PACIFIC GATEWAY PROJECT GREENHOUSE GAS EMISSIONS TECHNICAL REPORT

SAN JOAQUIN COUNTY, CALIFORNIA

RAMBOLL

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ACRONYMS AND ABBREVIATIONS

Acronym	Definition
AB	Assembly Bill
ACC	Advanced Clean Cars
ACF	Advanced Clean Fleets
AEP	Association of Environmental Professionals
AP-42	United States Environmental Protection Agency's Compilation of Air Pollutant Emission Factors
APCD	Air Pollution Control District
APR	Application Review
AQMD	Air Quality Management District
AR5	Fifth Assessment Report
AR6	Sixth Assessment Report
AvgHP	Maximum rated average horsepower
BAU	Business-As-Usual
BPS	Best Performance Standards
CAA	Clean Air Act
CAFE	Corporate Average Fuel Economy
CalEEMod®	California Emission Estimator Model®
CalEPA	California Environmental Protection Agency
CalRecycle	California Department of Resources Recycling and Recovery
CAMX	California and Mexico
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAT	Climate Action Team
CCCC	California Climate Change Center
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CFR	Code of Federal Regulations
CH_4	Methane

Acronym	Definition
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
COG	Council of Governments
CPUC	California Public Utilities Commission
CY	cubic yard
DOE	Department of Energy
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EF	emission factor
EISA	Energy Independence and Security Act
EMFAC	EMission FACtors model
EO	Executive Order
EPA	Environmental Protection Agency
EVs	Electric vehicles
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GHG	greenhouse gas
GW	Gigawatt
GWP	global warming potential
HDV	heavy-duty vehicle
HFCs	hydrofluorocarbons
IPCC	Intergovernmental Panel on Climate Change
lbs	Pounds
LCFS	Low Carbon Fuel Standard
LDV	light-duty vehicle
MDV	medium-duty vehicle
MSW	Municipal solid waste
MT	metric tons
N_2O	nitrogen dioxide
NHTSA	National Highway Traffic Safety Administration
OFFROAD	Off-road Emissions Inventory Program model
OPR	Office of Planning and Research
PFCs	perfluorocarbons

Acronym	Definition
PG&E	Pacific Gas and Electric
ppm	parts per million
PUP	Power/Utility Protocol
RCP	Representative Concentration Pathways
RPS	Renewables Portfolio Standards
RTP	Regional Transportation Plan
SAFE	Safer Affordable Fuel-Efficient
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SDG&E	San Diego Gas & Electric
SF_6	Sulfur hexafluoride
SJCOG	San Joaquin Council of Governments
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLCPs	short-lived climate pollutants
SUV	sports utility vehicle
TRU	transportation refrigeration unit
USDOT	the Department of Transportation
USEPA	United States Environmental Protection Agency
VFW	Veterans of Foreign Wars
VMT	vehicle miles travelled
VW	Volkswagen
ZEVs	Zero emission vehicles

Https://ramboll-my.sharepoint.com/personal/etom_ramboll_com/Documents/Working Files/Pacific Gateway Reports_2025/Pacific Gateway GHG Tech Report_LIVE.docx

1. INTRODUCTION

Ramboll Americas Engineering Solutions, Inc. (Ramboll) was asked to prepare a Greenhouse Gas (GHG) Emissions Technical Report for the proposed Pacific Gateway development in San Joaquin County, California (Project).

This GHG Emissions Technical Report analyzes the Project's impacts on GHGs from construction and operations. In particular, this report describes the existing setting of the Project site, describes the relevant regulatory setting, discusses the methodology used to evaluate GHG emissions related to the Project, and evaluates potential impacts related to GHGs that would result with 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 (**Figure 1**).

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 that would help reduce GHG emissions associated with project operation. Those which are expected to result in a quantified GHG impact are summarized below:

MM-GHG-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].

MM-GHG-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

[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.

(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. SCIENTIFIC AND REGULATORY BACKGROUNDS

2.1 Scientific Background

2.1.1 Science of Global Climate Change

There is a general scientific consensus that global climate change is occurring, caused in whole or in part by increased emissions of GHGs that keep the Earth's surface warm by trapping heat in the Earth's atmosphere, in much the same way as glass traps heat in a greenhouse. The Earth's climate is changing because human activities, primarily the combustion of fossil fuels, are altering the chemical composition of the atmosphere through the buildup of GHGs. GHGs allow the sun's radiation to penetrate the atmosphere and warm the Earth's surface, but do not let the infrared radiation emitted from the Earth escape back into outer space. As a result, global temperatures are predicted to increase over the century. In particular, if climate change remains unabated, surface temperatures in California are expected to increase anywhere from 4.1 to 8.6 degrees Fahrenheit by the end of the century. Not only would higher temperatures directly affect the health of individuals through greater risk of dehydration, heat stroke, and respiratory distress, the higher temperatures may increase ozone formation, thereby worsening air quality. Rising temperatures could also reduce the snowpack, which would increase the risk of water shortages. Higher temperatures along with reduced water supplies could reduce the quantity and quality of agricultural products. In addition, there could be an increase in wildfires and a shift in distribution of natural vegetation throughout the State. Global warming could also increase sea levels and coastal storms resulting in greater risk of flooding.

Emissions of carbon dioxide (CO_2) are the leading cause of global warming, with other pollutants such as methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons, and sulfur hexafluoride also contributing. The magnitude of the impact on global warming differs among the GHGs. For example, HFCs, perfluorocarbons, and sulfur hexafluoride have a greater "global warming potential" than CO_2. In other words, these other GHGs have a greater contribution to global warming than CO_2 on a per mass basis. The effect each GHG has on climate change is measured as a combination of the volume of its emissions and its global warming potential (GWP), and is expressed as a function of how much warming would be caused by the same mass of CO_2. Thus, GHG emissions are typically measured in terms of megagrams or metric tons (MT) of carbon dioxide equivalent (CO_2e). CO_2 has the greatest impact on global warming because of the relatively large quantities of CO_2 emitted into the atmosphere.

Globally, CO_2 concentrations, which ranged from 265 parts per million (ppm) to 280 ppm over the last 10,000 years, only began rising in the last 200 years. In 2019, the Intergovernmental Panel on Climate Change (IPCC) reported annual average CO_2 levels of 410 ppm,[2] a 46 percent increase. In an annual report from NOAA's Global Monitoring Lab, the 2024 annual average CO_2 levels were reported to have increased further to approximately 425 ppm.[3]

[2] IPCC. Climate Change 2023, Synthesis Report. 2023. Available at: https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_FullVolume.pdf. Accessed: January 2025.

[3] Climate.gov. Climate Change: Atmospheric Carbon Dioxide. 2023. Available at: https://www.climate.gov/news-features/understanding-climate/climate-change-atmospheric-carbon-dioxide. Accessed: January 2025.

In 2022, the United States emitted about 6.34 billion MT of CO_2e or about 19 MT/person/year, calculated by dividing the emissions total by the U.S. Census Bureau 2022 population estimate.[4, 5] Of the five major sectors nationwide -- residential, commercial, industrial, electric power generation, and transportation - transportation accounts for the highest fraction of GHG emissions (approximately 37.4 percent of emissions from these five sectors). These emissions are entirely generated from direct fossil fuel combustion. Approximately 57.4 percent of these transportation emissions resulted from passenger car and light-duty truck use. The remaining emissions came from other transportation activities, including the combustion of diesel fuel in medium- and heavy-duty vehicles, and jet fuel in aircraft. According to the Inventory of U.S. Greenhouse Gas Emissions and Sinks,[6] from 1990 to 2022 as a whole, transportation emissions from fossil fuel combustion rose, "due, in large part, to increased demand for travel … as a result of a confluence of factors including population growth, economic growth, urban sprawl, and periods of low fuel prices".

In 2022, California emitted approximately 371.1 million metric tons of CO_2e, or about 6 percent of the U.S. emissions.[7] California's percentage contribution is due primarily to the sheer size of California, as compared to other states. For example, in 2022 (the most recent year of state rankings for energy-related CO_2 emissions per capita), California had the third lowest per capita energy-related CO_2 emission rates in the country (including Washington DC),[8] due to the success of its energy efficiency and renewable energy programs and commitments that have lowered the State's GHG emissions rate of emissions growth.[9] California's per capita GHG emissions in 2022 were 8.4 metric tons per person[10], while the U.S. per capita GHG emissions in that same year were 19 metric tons per person.[11, 12]

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4 USEPA. 2024. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022. Available at: https://www.epa.gov/system/files/documents/2024-04/us-ghg-inventory-2024-main-text_04-18-2024.pdf. Accessed: January 2025.

5 U.S. Census Bureau. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2020 to July 1, 2021. (NST-EST2021_POP). Available at: https://data.census.gov/table/PEPPOP2021.NST_EST2021_POP?q=NST-EST2021. Accessed: January 2025.

6 USEPA. 2024. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022. Available at: https://www.epa.gov/system/files/documents/2024-04/us-ghg-inventory-2024-main-text_04-18-2024.pdf. Accessed: January 2025.

7 CARB. 2024. California Greenhouse Gas Emissions for 2000 to 2022 Trends of Emissions and Other Indicators. Available at: https://ww2.arb.ca.gov/sites/default/files/2024-09/nc-2000_2022_ghg_inventory_trends.pdf. Accessed: January 2024.

8 US EIA. 2022.Table 4: Per capita energy-related carbon dioxide emissions by state. Available at: https://www.eia.gov/environment/emissions/state/. Accessed: January 2025.

9 The Center for Resource Efficient Communities. 2013. Residential Energy Use and GHG Emissions Impact of Compact Land Use Types. Report to ARB, Contract No. 10-323. Available at: http://www.arb.ca.gov/research/apr/past/10-323h.pdf. Accessed: January 2025.

10 US EIA. 2022.Table 4: Per capita energy-related carbon dioxide emissions by state. Available at: https://www.eia.gov/environment/emissions/state/. Accessed: January 2025.

11 USEPA. 2023. Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2021. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-12/2000_2021_ghg_inventory_trends.pdf. Accessed: January 2025.

12 U.S. Census Bureau. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2023. (NST-EST2023). Available at: https://www2.census.gov/programs-surveys/popest/tables/2020-2023/state/totals/NST-EST2023-POP.xlsx. Accessed: January 2025.

Another factor that has reduced California's fuel use and GHG emissions is its mild climate compared to that of many other states.

The California Energy Commission (CEC) found that transportation is the source of approximately 38 percent of the State's GHG emissions, followed by industrial sources at 19 percent, and electricity generation (both in-state and out-of-state) at 16 percent. Residential and commercial activities comprised approximately 10 percent of the inventory. Agriculture and forestry is the source of approximately 8 percent of the State's GHG emissions. The remainder of the State's GHG emissions are accounted for by high-GWP gases or recycling and waste.[13]

2.1.2 Potential Effects of Human Activity on Global Climate Change

Globally, climate change has the potential to impact numerous environmental resources through anticipated, though uncertain, impacts related to future air temperatures and precipitation patterns. Scientific modeling predicts that continued GHG emissions at or above current rates would induce more extreme climate changes during the 21st century than were observed during the 20th century. At the end of the 21st century, global surface temperature change is likely to exceed 1.5°C (relative to 1850-1900 levels) in all four assessed climate model projections but one.[14]

The understanding of GHG emissions, particulate matter, and aerosols on global climate trends is complex and involves varying uncertainties and a balance of different effects. In addition to uncertainties about the extent to which human activity rather than solar or volcanic activity is responsible for increasing warming, there is also evidence that some human activity has cooling, rather than warming, effects, as discussed in detail in numerous publications by the Intergovernmental Panel on Climate Change (IPCC), such as the Sixth Assessment Report (AR5) Synthesis Report.[15, 16] Nonetheless, when all effects and uncertainties are considered together, there is a strong scientific consensus that human activity has contributed significantly to global warming. As stated in Section A, Current Status and Trends of the Synthesis Report, the concluding report for the Sixth Assessment Report, "Human activities, principally through emissions of greenhouse gases, have unequivocally caused global warming, with global surface temperature reaching 1.1°C above 1850–1900 in 2011–2020."[17]

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[13] CARB. 2023. California Greenhouse Gas Emissions for 2000 to 2021 Trends of Emissions and Other Indicators. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-12/2000_2021_ghg_inventory_trends.pdf. Accessed: January 2025.

[14] IPCC. Intergovernmental Panel on Climate Change (IPCC) Fifth Assessment Report. Climate Change 2014: Synthesis Report. 2014. SPM.2.2. Available at: https://www.ipcc.ch/site/assets/uploads/2018/02/SYR_AR5_FINAL_full.pdf. Accessed: January 2025.

[15] The IPCC was established in 1988 by the World Meteorological Organization and the United Nations Environment Programme to assess scientific, technical, and socio-economic information relevant for the understanding of climate change, its potential impacts, and options for adaptation and mitigation. The IPCC has produced a series of Assessment Reports comprised of full scientific and technical assessments of climate change. The first assessment report was developed in 1990. The Sixth Assessment Report was completed in March 2023 with the Synthesis Report.

[16] Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report. Climate Change 2023: Synthesis Report. 2023. Available at: https://www.ipcc.ch/report/ar6/syr/downloads/report/IPCC_AR6_SYR_FullVolume.pdf. Accessed: January 2025.

[17] Ibid.

Acknowledging uncertainties regarding the rate at which anthropogenic GHG emissions would continue to increase (based upon various factors under human control, such as future population growth and the locations of that growth; the amount, type, and locations of economic development; the amount, type, and locations of technological advancement; adoption of alternative energy sources; legislative and public initiatives to curb emissions; and public awareness and acceptance of methods for reducing emissions), and the impact of such emissions on climate change, the IPCC devises emission scenarios which utilize various assumptions about the rates of economic development, population growth, and technological advancement over the course of the next century. For the AR6, Shared Socio-economic Pathways (SSPs) were assessed to cover the range of possible future development of drivers of climate change, including a range of very low to very high GHG emissions scenarios. Additionally, Representative Concentration Pathways (RCPs) were used to assess regional climate changes, impacts, and risks. Some findings from AR6 are shown below:[18]

- The projected effects of global warming are assessed under each of the scenarios.
- Global warming will continue to increase in the near term (2021–2040) mainly due to increased cumulative CO_2 emissions in nearly all considered scenarios and modelled pathways. In the considered scenarios and modelled pathways, the best estimates of the time when the level of global warming of 1.5°C is reached lie in the near term.
- The assessed climate response to GHG emissions scenarios results in a best estimate of warming for 2081–2100 that spans a range from 1.4°C for a very low GHG emissions scenario to 4.4°C for a very high GHG emissions scenario.

Potential secondary effects from global warming include impacts to agriculture, changes in disease vectors, and changes in habitat and biodiversity.

2.1.3 Potential Effects of Climate Change on the State of California

According to the California Air Resources Board (CARB), some of the potential impacts in California of global warming may include loss in snowpack, sea level rise, more extreme heat days per year, more high ozone days, more large forest fires, and more drought years.[19] The California Climate Change Center (CCCC) has released four assessment reports on climate change in California, the most recent in 2018. California's Fourth Climate Change Assessment projects an increase by 5.6-8.8°F from 2070 to 2100 depending on greenhouse gas emission reductions (at a moderate rate or continuing at current rates).[20] California's Fifth Climate Change Assessment is currently in development.

Below is a summary of some of the potential effects reported in an array of studies that could be experienced in California as a result of global warming and climate change.

2.1.3.1 Air Quality

Higher temperatures, conducive to air pollution formation, could worsen air quality in California. Climate change may increase the concentration of ground-level ozone, but the

[18] Ibid.

[19] California Air Resources Board (CARB). Public Workshop to Discuss Establishing the 1990 Emissions Level and the California 2020 Limit and Developing Regulations to Require Reporting of Greenhouse Gas Emissions, Sacramento, CA. 2006. Available at: https://www.sandiegocounty.gov/content/dam/sdc/pds/ceqa/Soitec-Documents/Final-EIR-Files/references/rtcref/ch3.1.3/2014-12-19_CARB2006.pdf. Accessed: January 2025.

[20] California Climate Change Center, 2018. California's Changing Climate 2018. A Summary of Key Findings from California's Fourth Climate Change Assessment.

magnitude of the effect, and therefore its indirect effects, are uncertain. For other pollutants, the effects of climate change and/or weather are less well studied, and even less well understood.

If higher temperatures are accompanied by drier conditions, the potential for large wildfires could increase, which, in turn, would further worsen air quality. Studies have been conducted to evaluate the potential impacts of climate change on wildfire frequency based on lower and higher emissions scenarios. Per California's Fourth Climate Change Assessment, under a higher emissions scenario, the average area burned statewide could increase by 77 percent above historic levels by 2100.[21] Per California's Third Climate Change Assessment, the estimated burned area is projected to increase between 57 and 169 percent, depending on location.[22] However, if higher temperatures are accompanied by wetter, rather than drier conditions, the rains would tend to temporarily clear the air of particulate pollution and reduce the incidence of large wildfires, thus ameliorating the pollution associated with wildfires. Additionally, severe heat accompanied by drier conditions and poor air quality could increase the number of heat-related deaths, illnesses, and asthma attacks throughout the State.[23]

It is estimated that over the next decade, higher temperatures could increase the demand for electricity by 1 Gigawatt (GW) during summer months, which would require purchase of costly peak power from external sources or the construction of one new large power plant in California.[24] During periods of extreme heat, efficiency of electricity generation is reduced at natural gas plants; hydropower generation is reduced; and increased losses occur at substations; all while electricity demands are increased. These factors are projected to result in the need for more than 17 GW, or 38 percent of additional capacity, needed by 2100. Additionally, transmission lines lose 7 to 8 percent of transmitting capacity in higher temperatures, which also results in a need for increased power generation.[25]

2.1.3.2 Water Supply

Uncertainty remains with respect to the overall impact of global climate change on future water supplies in California. For example, models that predict drier conditions suggest decreased reservoir inflows and storage, and decreased river flows, relative to current conditions. By comparison, models that predict wetter conditions project increased reservoir inflows and storage, and increased river flows.[26]

A July 2006 technical report prepared by the California Department of Water Resources (DWR) addresses the State Water Project, the Central Valley Project, and the Sacramento-

[21] Ibid.

[22] California Climate Change Center, 2012. Our Changing Climate 2012: Vulnerability and Adaptation to the Increasing Risks from Climate Change in California. CEC-500-2012-007. July, 2012.

[23] California Climate Change Center (CCCC), 2006. Our Changing Climate: Assessing the Risks to California, CEC500-2006-077, Sacramento, CA. July. Available at: https://www.engr.scu.edu/~emaurer/papers/CEC-500-2006-077.pdf. Accessed: January 2025.

[24] California Climate Change Center, 2012. Our Changing Climate 2012: Vulnerability and Adaptation to the Increasing Risks from Climate Change in California. CEC-500-2012-007. July, 2012.

[25] Ibid.

[26] Brekke, L.D., et al, 2004. —Climate Change Impacts Uncertainty for Water Resources in the San Joaquin River Basin, California. Journal of the American Water Resources Association. 40(2): 149–164. Malden, MA, Blackwell Synergy for AWRA.

San Joaquin Delta. Although the report projects that, "[c]limate change will likely have a significant effect on California's future water resources … [and] future water demand," it also reports that, "there is much uncertainty about future water demand, especially those aspects of future demand that will be directly affected by climate change and warming. While climate change is expected to continue through at least the end of this century, the magnitude and, in some cases, the nature of future changes is uncertain. This uncertainty serves to complicate the analysis of future water demand, especially where the relationship between climate change and its potential effect on water demand is not well understood,"[27] DWR adds that "[i]t is unlikely that this level of uncertainty will diminish significantly in the foreseeable future."[28] Still, changes in water supply are expected to occur, and many regional studies have shown that large changes in the reliability of water yields from reservoirs could result from only small changes in inflows.[29]

California's Third Climate Change Assessment outlines the State's urgent water management challenges brought on as a result of climate change. These include increasing demand from a growing population as temperatures rise, earlier snowmelt and runoff, and faster-than-historical sea-level rise threatening aging coastal water infrastructure and levees in the Sacramento-San Joaquin Delta.[30] Additionally, they predict that competition between urban and agriculture water users and environmental needs will increase due to effects on water supply and stream flows. The Fourth Climate Change Assessment concludes that by 2100, water supply from snowpack is projected to decline by two-thirds, and that by 2050, California's agricultural production could face climate-related water shortages of up to 16 percent in certain regions.[31]

2.1.3.3 Hydrology

As discussed above, climate change could potentially affect the following: the amount of snowfall, rainfall, and snowpack; the intensity and frequency of storms; flood hydrographs (flash floods, rain or snow events, coincidental high tide, and high runoff events); sea level rise and coastal flooding; coastal erosion; and the potential for saltwater intrusion. Sea level rise can be a product of global warming through two main processes -- expansion of sea water as the oceans warm and melting of ice over land. A rise in sea levels could result in coastal flooding and erosion and could also jeopardize California's water supply. In particular, saltwater intrusion would threaten the quality and reliability of the State's major fresh water supply that is pumped from the southern portion of the Sacramento/San Joaquin River Delta. Increased storm intensity and frequency could affect the ability of flood-control facilities, including levees, to handle storm events. Assuming the rate of sea level rise continues to follow global trends, sea level along California's coastline in 2050 could be 10-18 inches

[27] California Department of Water Resources (DWR), 2006. Progress on Incorporating Climate Change into Management of California Water Resources, Sacramento, CA. July.

[28] California Department of Water Resources (DWR), 2006. Progress on Incorporating Climate Change into Management of California Water Resources, Sacramento, CA. July.

[29] Kiparsky 2003, op. cit; DWR, 2005, op. cit.; Cayan, D., et al, 2006. Scenarios of Climate Change in California: An Overview (White Paper, CEC-500-2005-203-SF), Sacramento, CA. February.

[30] California Climate Change Center, 2012. Our Changing Climate 2012: Vulnerability and Adaptation to the Increasing Risks from Climate Change in California. CEC-500-2012-007. July, 2012.

[31] California Climate Change Center, 2018. California's Changing Climate 2018. A Summary of Key Findings from California's Fourth Climate Change Assessment.

higher than in 2000, and 31-55 inches higher by the end of this century.[32] Based on these current projections, the current 100-year storm could occur once every year. California's Fourth Climate Change Assessment projects that without implementation of protective measures, airports in major urban areas will be susceptible to major flooding from a combination of sea-level rise and storm surge by 2040 to 2080 and that the miles of highways susceptible to coastal flooding from a 100-year storm will triple from current levels by 2100.[33]

2.1.3.4 Agriculture

California has a $30 billion agricultural industry that produces half the country's fruits and vegetables. The CCCC notes that higher CO_2 levels can stimulate plant production and increase plant water-use efficiency. However, if temperatures rise and drier conditions prevail, water demand could increase, crop-yield could be threatened by a less reliable water supply, and greater ozone pollution could render plants more susceptible to pest and disease outbreaks. In addition, temperature increases could change the time of year that certain crops, such as wine grapes, bloom or ripen, and thus affect their quality.[34]

2.1.3.5 Ecosystems and Wildfire

Increases in global temperatures and the potential resulting changes in weather patterns could have ecological effects on a global and local scale. In 2004, the Pew Center on Global Climate Change released a report examining the possible impacts of climate change on ecosystems and wildlife.[35] The report outlines four major ways in which it is thought that climate change could affect plants and animals: (1) timing of ecological events, (2) geographic range, (3) species' composition within communities, and (4) ecosystem processes such as carbon cycling and storage.

2.2 Regulatory Background

2.2.1 Federal

2.2.1.1 Clean Air Act

In April 2007, in *Massachusetts v. EPA*, the U.S. Supreme Court directed the Administrator of the U.S. Environmental Protection Agency (USEPA) to determine whether GHG emissions from new motor vehicles cause or contribute to air pollution that may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision.[36] In making these decisions, the USEPA Administrator was directed to follow the language of Section 202(a) of the Clean Air Act (CAA). In December 2009, the Administrator signed a final rule with two distinct findings regarding GHGs under Section 202(a) of the CAA:

[32] California Climate Change Center, 2012. Our Changing Climate 2012: Vulnerability and Adaptation to the Increasing Risks from Climate Change in California. CEC-500-2012-007. July, 2012.

[33] California Climate Change Center, 2018. California's Changing Climate 2018. A Summary of Key Findings from California's Fourth Climate Change Assessment.

[34] California Climate Change Center (CCCC), 2006, op. cit.

[35] Parmesan, C. and H. Galbraith, Observed Impacts of Global Climate Change in the U.S., Arlington, VA: Pew Center on Global Climate Change, November 2004.

[36] Massachusetts v. Environmental Protection Agency. April 2007. Available at: https://tile.loc.gov/storage-services/service/ll/usrep/usrep549/usrep549497/usrep549497.pdf. Accessed: January 2025.

- Elevated concentrations of GHGs—CO_2, CH_4, N_2O, HFCs, perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6)—in the atmosphere threaten the public health and welfare of current and future generations. This is referred to as the "endangerment finding."
- The combined emissions of GHGs—CO_2, CH_4, N_2O, and HFCs—from new motor vehicles and new motor vehicle engines contribute to the GHG air pollution that endangers public health and welfare. This is referred to as the "cause or contribute finding."

These two findings were necessary to establish the foundation for regulation of GHGs from new motor vehicles as air pollutants under the CAA.

2.2.1.2 Executive Order 14008

On January 27, 2021, President Biden issued an Executive Order on Tackling the Climate Crisis at Home and Abroad (Executive Order 14008).[37] Part I of the Order highlights putting the climate crisis at the center of United States foreign policy and national security. Addressing the climate crisis will require significant short-term global reductions in GHG emissions and net-zero global emissions by mid-century or sooner. The United States will pursue green recovery efforts and initiatives to advance the clean energy transition.

Part II of the Order relays the government-wide approach to the climate crisis, which involves reducing climate pollution in every sector of the economy, especially through innovation, commercialization, and deployment of clean energy technologies and infrastructure. A National Climate Task Force is established to focus on addressing the climate crisis through key federal actions to reduce climate change impacts. A 100% carbon pollution-free electricity sector is targeted by no later than 2035 and a net-zero emissions economy is to be achieved by no later than 2050. Offshore wind is aimed to be doubled by 2030. Opportunities for federal funding of clean energy technology and infrastructure shall be identified. Federal permitting decisions need to consider the effects of GHG emissions and climate change.

2.2.1.3 Paris Climate Agreement

On June 1, 2017, President Trump withdrew the United States from the Paris Agreement.[38] The Paris Agreement was negotiated within the United Nations Framework Convention on Climate Change in 2015 to reduce GHG emissions internationally. The goal of the Paris Agreement was to keep the global temperature rise this century to below 2 degrees Celsius above pre-industrial standards, with efforts to limit temperature increase even further to 1.5 degrees Celsius. The Paris Agreement became effective on November 4, 2016. As of October 5, 2016, 155 of 197 parties had ratified the Paris Agreement.[39] On January 20, 2021, President Biden signed an Executive Order formally rejoining the United

[37] White House Briefing Room. 2021. *Executive Order on Tackling the Climate Crisis at Home and Abroad*. January 27. Available at: https://www.federalregister.gov/documents/2021/02/01/2021-02177/tackling-the-climate-crisis-at-home-and-abroad. Accessed: January 2025.

[38] USEPA. 2017. Administrator Scott Pruitt Speech on Paris Accord, As Prepared. June 1. Available at: https://archive.epa.gov/epa/speeches/administrator-scott-pruitt-speech-paris-accord-prepared.html. Accessed: January 2025.

[39] United Nations Framework Convention on Climate Change. 2017. The Paris Agreement. July 27. Available at: http://unfccc.int/paris_agreement/items/9485.php. Accessed: January 2025.

States to the Paris Agreement.[40] However, on January 20, 2025, President Trump had signed an Executive Order to withdraw the United States from the Paris Agreement.[41]

2.2.1.4 Federal Vehicle Standards

In response to the *Massachusetts v. EPA* decision discussed above, in 2007, President Bush directed the USEPA, the Department of Transportation (USDOT), and the Department of Energy (DOE) to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the National Highway Traffic Safety Administration (NHTSA) issued a final rule regulating fuel efficiency for and GHG emissions from cars and light-duty trucks for model year 2011; and in 2010, the USEPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, President Obama issued a memorandum directing the same federal agencies to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the USEPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model year 2017–2025 light-duty vehicles. The proposed standards are projected to achieve 163 grams/mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021.

In August 2017, the USEPA asked for additional information and data relevant to assessing whether the GHG emissions standards for model years 2022-2025 remain appropriate. In early 2018, the USEPA Administrator announced that the midterm evaluation for the GHG emissions standards for cars and light-duty trucks for model years 2022-2025 was completed and stated his determination that the current standards should be revised in light of recent data. Subsequently, in 2018, the USEPA and NHTSA proposed to amend certain existing Corporate Average Fuel Economy (CAFE) standards and tailpipe carbon dioxide emissions 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 pending proposal would increase U.S. fuel consumption.[42] California and other states have announced their intent to challenge federal actions that would delay or eliminate GHG reductions. In April 2020, NHTSA and EPA amended the CAFE and GHG emissions standards for passenger cars and light trucks and established new less stringent standards, covering model years 2021 through 2026.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the USEPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles.

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[40] White House Briefing Room. 2021. *Paris Climate Agreement.* January 20. Available at: https://bidenwhitehouse.archives.gov/briefing-room/statements-releases/2021/01/20/paris-climate-agreement/. Accessed: January 2025.

[41] White House Briefing Room. 2025. *Putting America First in International Environmental Agreements*. January 20. Available at: https://www.whitehouse.gov/presidential-actions/2025/01/putting-america-first-in-international-environmental-agreements/. Accessed: January 2025

[42] Federal Register. 2018. *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Final Rule for Model Years 2021-2026 Passenger Cars and Light Trucks*. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/safer-affordable-fuel-efficient-safe-vehicles-final-rule. Accessed: January 2025.

In August 2016, the USEPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans and all types of sizes of buses and work trucks. The final standards are expected to lower carbon dioxide emissions by approximately 1.1 billion MT and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program.[43]

On September 27, 2019, the USEPA and NHTSA published the SAFE Rule (Part One).[44] The SAFE Rule (Part One) went into effect in November 2019, and revoked California's authority to set its own GHGs standards and set zero emission vehicle mandates in California. The SAFE Rule (Part One) freezes new zero emission vehicles (ZEV) sales at model year 2020 levels for year 2021 and beyond and will likely result in a lower number of future ZEVs and a corresponding greater number of future gasoline internal combustion engine vehicles. In response to the USEPA's adoption of the SAFE Rule (Part One), CARB has issued guidance regarding the adjustment of vehicle emissions factors to account for the rule's implications on criteria air pollutant and greenhouse gas emissions.[45,46] The SAFE Rule is subject to ongoing litigation and on February 8, 2021, the D.C. Circuit Court of Appeals granted the Biden Administration's motion to stay litigation over Part 1 of the SAFE Rule. On April 22 and April 28, 2021, respectively, NHTSA and USEPA formally announced their intent to reconsider the Safe Rule (Part One).[47,48] A virtual public hearing for EPA's Notice of Reconsideration of SAFE I was held on June 2, 2021. The NHTSA finalized the Corporate Average Fuel Economy Pre-emption rulemaking to withdraw its portions of the SAFE I Rule on December 21, 2021.[49] On March 9, 2022, USEPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards and ZEV sales mandate and entirely rescinded the SAFE Rule (Part One).

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[43] USEPA and NHTSA, 2016. Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2. Available at: https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf. Accessed: January 2025.

[44] USEPA and NHTSA. 2019. Federal Register, Vol. 84, No. 188, *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program*. September 27. Available at: https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf. Accessed: January 2025.

[45] CARB. 2019. EMFAC Off-Model Adjustment Factors to Account for the SAFE Vehicle Rule Part One. November 20. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-02/emfac_off_model_adjustment_factors_final_draft.pdf. Accessed: January 2025.

[46] CARB. 2020. EMFAC Off-Model Adjustment Factors for Carbon Dioxide Emissions to Account for the SAFE Vehicles Rule Part One and the Final SAFE Rule. June 26. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-02/emfac_off_model_co2_adjustment_factors_06262020-final.pdf. Accessed: January 2025.

[47] NHTSA. 2021. NHTSA Advances Biden-Harris Administration's Climate & Jobs Goals. April 22. Available at: https://www.nhtsa.gov/press-releases/nhtsa-advances-biden-harris-administrations-climate-jobs-goals. Accessed: January 2025.

[48] USEPA. 2021. Federal Register, Vol. 86, No. 80, *California State Motor Vehicle Pollution Control Standards; Advanced Clean Car Program; Reconsideration of a previous Withdrawal of a Waiver of Preemption; Opportunity for Public Hearing and Public Comment*. April 28. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/notice-reconsideration-previous-withdrawal-waiver. Accessed: January 2025.

[49] NHTSA. Available at: https://www.nhtsa.gov/laws-regulations/corporate-average-fuel-economy. Accessed: January 2025.

In December 2021, the USEPA finalized federal GHG emissions standards for passenger cars and light trucks for Model Years 2023 through 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector and are based on sound science and grounded in a rigorous assessment of current and future technologies. The updated standards will result in avoiding more than 3 billion tons of GHG emissions through 2050.[50]

In April 2023, the EPA proposed a new, more ambitious proposed standards for national greenhouse gas emission standards from light-duty and medium-duty vehicles starting with 2027 model year vehicles.[51] On March 20, 2024, EPA finalized these standards, which will phase in over model years 2027 to 2032. These standards build upon existing rules, and leverage advances in clean car technology to realize benefits to Americans such as the improvement of public health through reduction of criteria air pollutant and greenhouse gas emissions from vehicles.[52]

On August 5, 2021, EPA announced plans to reduce greenhouse gas (GHG) emissions and other harmful air pollutants from heavy-duty trucks through a series of rulemakings over the next three years. The first rulemaking of this Clean Trucks Plan is a final rule signed on December 20, 2022, which focuses on reducing emissions that form smog and soot and will apply to heavy-duty engines and vehicles beginning in model year 2027.[53] Two additional rulemakings, Phase 3 greenhouse gas rule for heavy-duty engines and the multi-pollutant emissions standards for light-duty and medium-duty vehicles were signed in March 2024, and marked the completion of the Clean Trucks Plan.[54]

2.2.1.5 Energy Independence and Security Act

The Energy Independence and Security Act of 2007 (EISA)[55] 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.

[50] USEPA. 2021. Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions. Accessed: January 2025.

[51] United States Environmental Protection Agency. 2023. Proposed Rule: Multi-Pollutant Emissions Standards for Model Years 2027 and Later Light-Duty and Medium-Duty Vehicles. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/proposed-rule-multi-pollutant-emissions-standards-model. Accessed: January 2025.

[52] United States Environmental Protection Agency. 2023. Final Rule: Multi-Pollutant Emissions Standards for Model Years 2027 and Later Light-Duty and Medium-Duty Vehicles. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-multi-pollutant-emissions-standards-model. Accessed: January 2025.

[53] USEPA. Regulations for Emissions from Vehicles and Engines. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/regulations-greenhouse-gas-emissions-commercial-trucks. Accessed: January 2025.

[54] USEPA. Regulations for Emissions from Vehicles and Engines. Available at: https://www.epa.gov/regulations-emissions-vehicles-and-engines/regulations-greenhouse-gas-emissions-commercial-trucks. Accessed: January 2025.

[55] 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: January 2025.

- 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

2.2.2 State

The State of California considers GHG emissions and the impacts of climate change to be a serious threat to the public health, environment, economic well-being, and natural resources of California, and has taken an aggressive stance to mitigate the State's impact on climate change through the adoption of policies and legislation. CARB is responsible for the coordination and oversight of State and local air pollution control programs in California. California has numerous regulations aimed at reducing the State's GHG emissions. Some of the major initiatives are summarized below.

2.2.2.1 Executive Order S-3-05

In 2005, Governor Schwarzenegger issued EO S-3-05, which identifies Statewide GHG emission reduction targets to achieve long-term climate stabilization as follows.

- Reduce GHG emissions to 1990 levels by 2020; and
- Reduce GHG emissions to 80 percent below 1990 levels by 2050.

In response to EO S-3-05, California Environmental Protection Agency (CalEPA) created the Climate Action Team (CAT), which in March 2006 published the Climate Action Team Report (the "2006 CAT Report").[56] The 2006 CAT Report identified a recommended list of strategies that the State could pursue to reduce GHG emissions. These are strategies that could be implemented by various State agencies to ensure that the emission reduction targets in EO S-3-05 are met and can be met with existing authority of the State agencies. The strategies include, but are not limited to, the reduction of passenger and light-duty truck emissions, the reduction of idling times for diesel trucks, an overhaul of shipping

[56] California Environmental Protection Agency (CalEPA), March 2006. Climate Action Team Report to Governor Schwarzenegger and the Legislature. Available at: https://planning.lacity.gov/eir/8150Sunset/References/4.E.%20Greenhouse%20Gas%20Emissions/GHG.23_CalEPA%202006%20Report%20to%20Governor.pdf. Accessed: January 2025.

technology/infrastructure, increased use of alternative fuels, increased recycling, and landfill methane capture.

2.2.2.2 Assembly Bill 32

Assembly Bill (AB) 32 (Nunez, 2006), the California Global Warming Solutions Act of 2006, was enacted after considerable study and expert testimony before the Legislature. The heart of AB 32 is the requirement that statewide GHG emissions be reduced to 1990 levels by 2020. In order to achieve this reduction mandate, AB 32 requires California Air Resources Board to adopt rules and regulations in an open public process that achieve the maximum technologically feasible and cost-effective GHG reductions.

In 2007, CARB approved a statewide limit on the GHG emissions level for year 2020 consistent with the determined 1990 baseline. CARB's adoption of this limit is in accordance with Health & Safety Code Section 38550, as codified through enactment of AB 32.

Per Health & Safety Code Section 38561(b), CARB also is required to prepare, approve and amend a scoping plan that identifies and makes recommendations on "direct emission reduction measures, alternative compliance mechanisms, market-based compliance mechanisms, and potential monetary and nonmonetary incentives for sources and categories of sources that [CARB] finds are necessary or desirable to facilitate the achievement of the maximum feasible and cost-effective reductions of greenhouse gas emissions by 2020."

In November 2017, CARB published California's 2017 Climate Change Scoping Plan (2017 Scoping Plan), which was subsequently adopted by CARB's Board in December 2017.[57] The 2017 Scoping Plan identifies CARB's strategy for achieving the State's 2030 GHG target as established in Senate Bill (SB) 32 (discussed below). The strategy includes continuation of the Cap-and-Trade Program through 2030, and incorporates a Mobile Source Strategy that includes strategies targeted to increase zero-emission vehicle fleet penetration and a more stringent target for the Low Carbon Fuel Standard by 2030. The 2017 Scoping Plan also incorporates approaches to cutting short-lived climate pollutants (SLCPs) under the Short-Lived Climate Pollutant Reduction Strategy (a planning document that was adopted by CARB in March 2017) and acknowledges the need for reducing emissions in agriculture and highlights the work underway to ensure that California's natural and working lands increasingly sequester carbon.

When discussing Project-level GHG emissions reduction actions and thresholds, the 2017 Scoping Plan states:

"Project-Level Greenhouse Gas Emissions Reduction Actions and Thresholds

Beyond plan-level goals and actions, local governments can also support climate action when considering discretionary approvals and entitlements of individual projects through California Environmental Quality Act (CEQA). Absent conformity with an adequate geographically specific GHG reduction plan, CARB recommends that projects incorporate design features and GHG reduction measures, to the degree feasible, to minimize GHG emissions. Achieving no net additional increase in GHG emissions, resulting in no contribution to GHG impacts, is an appropriate overall objective for new development.

[57] CARB. 2017. California's 2017 Climate Change Scoping Plan. November. Available at: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/scoping_plan_2017.pdf. Accessed: January 2025.

Achieving net-zero increases in GHG emissions, resulting in no contribution to GHG impacts, may not be feasible or appropriate for every project, however, and the inability of a project to mitigate its GHG emissions to net-zero does not imply the project results in a substantial contribution to the cumulatively significant environmental impact of climate change under CEQA.

California's future climate strategy will require increased focus on integrated land use planning to support livable, transit-connected communities, and conservation and other lands. Accommodating population and economic growth through travel- and energy-efficient land use provides GHG-efficient growth, reducing GHGs from both transportation and building energy use. GHGs can be further reduced at the Project-level through implementing energy-efficient construction and travel demand management approaches."

2022 Scoping Plan Update

The 2022 Scoping Plan Update assesses progress towards achieving the Senate Bill 32 2030 target and lays out a path to achieve carbon neutrality no later than 2045. This plan update was approved by the Board in December 2022.[58] The 2022 Scoping Plan Update outlines a sector-by-sector roadmap for California to achieve carbon neutrality by 2045 or earlier. It aims to reduce anthropogenic emissions to 85% below 1990 levels by 2045 using technically feasible and cost-effective solutions. The 2022 Scoping Plan Update focuses on electrification of transportation, homes and buildings, and phasing out fossil fuels. In hard-to-electrify sectors, new solutions such as renewable hydrogen and biomethane are leveraged to achieve emissions reductions.

CARB's 2022 Scoping Plan Update outlines a number of actions for the Scoping Plan Scenario in Table 2-1. The list below represents the actions which are most relevant to the Project:

- GHG Emissions Reductions Relative to the SB 32 Target - 40% below 1990 levels by 2030.
- Smart Growth / Vehicle Miles Traveled (VMT) - VMT per capita reduced 25% below 2019 levels by 2030, and 30% below 2019 levels by 2045.
- Light-duty Vehicle (LDV) Zero Emission Vehicles (ZEVs) - 100% of LDV sales are ZEV by 2035.
- Truck ZEVs - 100% of medium-duty (MDV)/HDV sales are ZEV by 2040 (AB 74 University of California Institute of Transportation Studies [ITS] report).
- Freight and Passenger Rail - 100% of passenger and other locomotive sales are ZEV by 2030; 100% of line haul locomotive sales are ZEV by 2035; Line haul and passenger rail rely primarily on hydrogen fuel cell technology, and others primarily utilize electricity.
- New Residential and Commercial Buildings - All electric appliances beginning 2026 (residential) and 2029 (commercial), contributing to 6 million heat pumps installed statewide by 2030.

[58] CARB. 2022. Final 2022 Scoping Plan Update and Appendices. December. Available at: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents. Accessed: January 2025.

- Construction Equipment - 25% of energy demand electrified by 2030 and 75% electrified by 2045.
- Low Carbon Fuels for Transportation - Biomass supply is used to produce conventional and advanced biofuels, as well as hydrogen.
- Low Carbon Fuels for Buildings and Industry - In 2030s biomethane blended in pipeline; Renewable hydrogen blended in fossil gas pipeline at 7% energy (~20% by volume), ramping up between 2030 and 2040.
- Non-combustion Methane Emissions - Moderate adoption of enteric strategies by 2030; Divert 75% of organic waste from landfills by 2025.

In addition to the previous focus areas, the 2022 Scoping Plan Update developed a table of priority GHG reduction strategies that can be utilized by local governments. This is Table 1 in Appendix D of the 2022 Scoping Plan Update.[59] When discussing this table, the 2022 Scoping Plan Update notes:

"To assist local jurisdictions with developing local climate plans, measures, policies, and actions aligned with the State's climate goals, Table 1 presents a non-exhaustive list of impactful GHG reduction strategies that can be implemented by local governments. The strategies in Table 1 are not applicable to all local jurisdictions, nor are they the only strategies that local governments can adopt, but they represent the core strategies that most jurisdictions in California can implement to reduce GHG emissions regardless of whether they have developed a CEQA-qualified CAP. Reaching the outcomes of these priority GHG reduction strategies requires a locally appropriate, comprehensive adoption of policies in support of these objectives. When developing local climate plans, measures, policies, and actions, local jurisdictions should incorporate the recommendations described in Table 1 to the extent appropriate to ensure alignment with State climate goals."

2.2.2.3 SB 605 - Short-lived Climate Pollutants (SLCP)

Short-lived climate pollutants (i.e., black carbon, fluorinated gases, and methane) are powerful climate forcers that remain in the atmosphere for a much shorter period of time than longer-lived climate pollutants. Their relative potency, when measured in terms of how they heat the atmosphere, can be tens, hundreds, or even thousands of times greater than that of CO_2. The impacts of short-lived climate pollutants are especially strong over the short term. Reducing these emissions can make an immediate beneficial impact on climate change.[60] Governor Brown signed SB 605 on September 21, 2014, directing CARB to develop a Short-Lived Climate Pollutant Strategy by January 1, 2016. On May 7, 2015, CARB released a concept paper for reducing emissions of these substances. In September 2015, CARB released a draft of their Short-Lived Climate Pollutant Strategy. Several updates to the draft have been made since September 2015, with the most current version dated March 2017. The Strategy aims for a 40 percent reduction in methane and HFC emissions below

[59] CARB. 2022. Final 2022 Scoping Plan Update and Appendices. December. Available at: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents. Accessed: January 2025.

[60] CARB. 2016. Reducing Short-Lived Climate Pollutants in California. Available at: https://www.arb.ca.gov/cc/shortlived/shortlived.htm. Accessed: January 2025.

2013 levels by 2030 and a 50 percent reduction in anthropogenic emissions of black carbon below 2013 levels by 2030.[61]

In September 2016, Governor Brown set methane reduction targets for California through Senate Bill 1383 in an effort to reduce SLCPs.[62] Landfills are the third largest source of methane in California, and so the targets focused on ways in which the State can fight climate change through recycling organic waste. The targets in SB 1383 must:

- Reduce organic waste disposal 75% by 2025
- Send at least 20% of surplus, fresh food to Californians in need by 2025

2.2.2.4 Cap-and-Trade Program

California's Cap-and-Trade Program (Cal. Code Regs., tit. 17, §§ 95800-96022) regulates the emissions of large electric power plants, large industrial plants, and fuel distributors (including transportation fuel and natural gas). These sources are responsible for about 85 percent of the State's total GHG emissions inventory.[63] As described by CARB:

> "The Cap-and-Trade Regulation establishes a declining limit on major sources of GHG emissions throughout California, and it creates a powerful economic incentive for significant investment in cleaner, more efficient technologies… CARB creates allowances equal to the total amount of permissible emissions (i.e., the "cap"). One allowance equals one metric ton of carbon dioxide equivalent emissions (using the 100-year GWP). Each year, fewer allowances are created and the annual cap declines. An increasing annual auction reserve (or floor) price for allowances and the reduction in annual allowances creates a steady and sustained carbon price signal to prompt action to reduce GHG emissions. All covered entities in the Cap-and-Trade Program are still subject to existing air quality permit limits for criteria and toxic air pollutants."[64]

In the Cap-and-Trade Program, the State regulates the quantity of emissions by determining, in advance, how many allowances to issue—i.e., setting the "cap." Each allowance is essentially a permit issued by the State authorizing a certain quantity of GHG emissions. There are only a finite number of allowances, ensuring that covered entities may only lawfully emit a certain quantity of GHGs. If a covered entity wishes to emit carbon, it must obtain allowances to authorize those emissions.

[61] CARB. 2017. Short-Lived Climate Pollutant Reduction Strategy. Available at: https://ww2.arb.ca.gov/sites/default/files/2020-07/final_SLCP_strategy.pdf. Accessed: January 2025.

[62] CalRecycle. California's Short-Lived Climate Pollutant Reduction Strategy. Available at: https://calrecycle.ca.gov/organics/slcp/. Accessed: January 2025.

[63] CARB. 2015. Overview of CARB Emissions Trading Program. February 9. Available at: https://ww2.arb.ca.gov/sites/default/files/cap-and-trade/guidance/cap_trade_overview.pdf. Accessed: January 2025.

[64] Ibid.

Importantly, the Cap-and-Trade Program has been designed to provide a firm cap, ensuring that the 2020 statewide emissions limit identified by CARB in the 2008 Scoping Plan will *not* be exceeded.[65] Thus, for the emission sources covered by the Program, which are nearly all of the sources associated with land use development projects, compliance with AB 32's 2020 mandate is assured by the Cap-and-Trade Program.

AB 398 (2017) extended the statutorily defined horizon year of the Cap-and-Trade Program to December 31, 2030, thereby facilitating continued reliance on the Cap-and-Trade Program for purposes of achieving SB 32's 2030 statewide reduction target.

In June 2023, CARB proposed to amend the Cap-and-Trade regulation and since then has hosted numerous workshops on the potential amendments.[66] In April 2024 CARB published a Standardized Regulatory Impact Assessment of the potential amendments, which outline changes to the regulation such as revision of future allowances, updates to industrial allowance allocations, and other changes that are intended to align the Cap-and-Trade Program with updated statewide GHG reduction targets in the 2022 Scoping Plan Update.[67] These updated statewide targets include a 48% reduction of anthropogenic GHG emissions below 1990 levels by 2030, an 85% reduction of GHG emissions below 1990 levels by 2045, and achieving carbon neutrality by 2045.[68]

2.2.2.5 Executive Order B-30-15

In April 2015, Governor Brown signed EO B-30-15, which established the following GHG emission reduction goal for California: by 2030, reduce GHG emissions to 40 percent below 1990 levels. This EO also directed all state agencies with jurisdiction over GHG-emitting sources to implement measures designed to achieve the new interim 2030 goal, as well as the pre-existing, long-term 2050 goal identified in EO S-3-05 (see discussion above). Additionally, the EO directed CARB to update its Scoping Plan (see discussion above) to address the 2030 goal.

2.2.2.6 Senate Bill 32 and Assembly Bill 197

Enacted in 2016, SB 32 (Pavley, 2016) codifies the 2030 emissions reduction goal of EO B-30-15 by requiring CARB to ensure that statewide GHG emissions are reduced to 40 percent below 1990 levels by 2030.

SB 32 was coupled with a companion bill: AB 197 (Garcia, 2016). Designed to improve the transparency of CARB's regulatory and policy-oriented processes, AB 197 created the Joint Legislative Committee on Climate Change Policies, a committee with the responsibility to ascertain facts and make recommendations to the Legislature concerning statewide programs, policies, and investments related to climate change. AB 197 also requires CARB to

[65] CARB. 2008. Climate Change Scoping Plan: A Framework for Change. December. Available at: https://ww2.arb.ca.gov/sites/default/files/classic/cc/scopingplan/document/adopted_scoping_plan.pdf. Accessed: January 2025.

[66] CARB. Cap-and-Trade Meetings & Workshops. Available here: https://ww2.arb.ca.gov/our-work/programs/cap-and-trade-program/cap-and-trade-meetings-workshops. Accessed: January 2025.

[67] CARB. 2022. Final 2022 Scoping Plan Update and Appendices. December. Available at: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents. Accessed: January 2025.

[68] CARB. 2024. Regulation for the California Cap on Greenhouse Gas Emissions and Market-Based Compliance Mechanisms 2024 Amendments Standardized Regulatory Impact Assessment (SRIA). April 9. Available here: https://ww2.arb.ca.gov/sites/default/files/2024-04/nc-Cap-and-Trade_SRIA2024.pdf. Accessed: January 2025.

make certain GHG emissions inventory data publicly available on its web site; consider the social costs of GHG emissions when adopting rules and regulations designed to achieve GHG emission reductions; and include specified information in all Scoping Plan updates for the emission reduction measures contained therein.

2.2.2.7 Executive Order B-55-18

In September 2018, Governor Brown signed EO B-55-18, which established a new statewide goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." This EO directs CARB to "work with relevant state agencies to ensure future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal."

In January 2019, CARB kicked off workshops regarding carbon neutrality in California,[69] during which CARB staff explained that the definitional parameters and meaning of the term – carbon neutrality – are still being explored. CARB held additional workshops throughout 2019 and 2020 to explore specific topics related to the pursuit of carbon neutrality, engage with other experts in the field and stakeholders, and conduct research to ensure that any path to carbon neutrality balances scientific, economic and social justice principles.

2.2.2.8 Energy Sources

Renewables Portfolio Standard

As most recently amended by SB 100 (2018), California's Renewables Portfolio Standard requires retail sellers of electric services and local publicly-owned electric utilities to increase procurement from eligible renewable energy resources to 50 percent of total retail sales by 2026, and 60 percent of total retail sales by 2030. SB 100 also established a State policy goal to achieve 100 percent renewables by 2045.

In March 2021, CEC, CPUC, and CARB released a joint-agency report evaluating the current feasibility of achieving the energy resource and GHG reductions goals of SB 100. The report finds that SB 100 is technically feasible when analyzed under scenarios of varying timelines, advancements in energy generation technology, and energy source portfolios. Under the SB 100 Core Scenario, it is anticipated that California will need to triple its current electricity power capacity.[70]

Building Energy Efficiency Standards

Title 24, Part 6 of the California Code of Regulations regulates the design of building shells and building components. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods.

The CEC's 2022 Building Energy Efficiency Standards (2022 Building Standards), which became effective January 1, 2023, are the currently applicable version of these standards. [71]

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[69] CARB. Carbon Neutrality in California Context Webinar. January 2019. Available at: https://www.arb.ca.gov/cc/scopingplan/meetings/012319/cneutrality_ca_script.pdf. Accessed: January 2025.

[70] CEC. 2021. 2021 SB 100 Joint Agency Report, Achieving 100 Percent Clean Electricity in California: An Initial Assessment. Available at: https://www.energy.ca.gov/publications/2021/2021-sb-100-joint-agency-report-achieving-100-percent-clean-electricity. Accessed: January 2025.

[71] CEC. 2022 Building Energy Efficiency Standards. Available at: https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency. Accessed: January 2025.

In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CalGreen Building Standard (CalGreen), and establishes voluntary and mandatory standards pertaining to the planning and design of sustainable site development, energy efficiency, water conservation, material conservation, and interior air quality. Like Part 6 of Title 24, the CalGreen standards are periodically updated, with increasing energy savings and efficiencies associated with each code update.

At the time of this writing, the CEC is in the process of developing the 2025 Energy Code.[72]

Appliance Standards

The CEC periodically amends and enforces Appliance Efficiency Regulations contained in Title 20 of the California Code of Regulations. The regulations establish water and energy efficiency standards for both federally-regulated appliances and non-federally regulated appliances. The regulations cover numerous categories of appliances (e.g., refrigerators; plumbing fixtures; dishwashers; clothes washer and dryers; televisions) and apply to appliances offered for sale in California.[73]

2.2.2.9 Mobile Sources

Sustainable Communities Strategy Plans

SB 375 (Steinberg, 2008), the Sustainable Communities and Climate Protection Act, coordinates land use planning, regional transportation plans, and funding priorities to reduce GHG emissions from passenger vehicles through better-integrated regional transportation, land use, and housing planning that provides easier access to jobs, services, public transit, and active transportation options. SB 375 specifically requires the Metropolitan Planning Organization relevant to the Project area (here, the San Joaquin Council of Governments [SJCOG]) to include a Sustainable Communities Strategy in its Regional Transportation Plan (RTP) that, if implemented, will achieve GHG emission reduction targets set by CARB by reducing vehicle miles traveled from light-duty vehicles through the development of more compact, complete, and efficient communities.

For the area under SJCOG's jurisdiction, including the Project site, CARB originally adopted regional targets for reduction of mobile source-related GHG emissions of 5 percent for 2020 and 10 percent for 2035. The targets are expressed as a percentage change in per capita passenger vehicle GHG emissions relative to 2005 emissions levels. These original 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 apply to future RTP/SCS planning cycles beginning October 1, 2018.[74]

Senate Bill 743

Public Resources Code Section 21099(c)(1), as codified through enactment of SB 743 (Steinberg, 2013), authorized the Governor's Office of Planning and Research (OPR) to

[72] CEC. 2025 Building Energy Efficiency Standards. Available at: https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2025-building-energy-efficiency. Accessed: January 2025.

[73] CEC. Title 20 Appliance Efficiency Program. Available at: https://www.energy.ca.gov/rules-and-regulations/appliance-efficiency-regulations-title-20. Accessed: January 2025.

[74] CARB. Regional Plan Targets. Available at: https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets. Accessed: January 2025.

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 statewide 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.

Pavley Regulations

AB 1493 (Pavley, 2002) required CARB to adopt regulations to reduce GHG emissions from non-commercial passenger vehicles and light-duty trucks for model years 2009–2016. On July 8, 2009, CARB obtained a waiver from the USEPA that allows for implementation of these regulations.

Low Carbon Fuel Standard

EO S-1-07, as issued by Governor Schwarzenegger, called for a 10 percent or greater reduction in the average fuel carbon intensity for transportation fuels in California regulated by CARB by 2020.[75] In response, CARB approved the Low Carbon Fuel Standard (LCFS) regulations in 2009, which became fully effective in April 2010. Thereafter, a lawsuit was filed challenging CARB's adoption of the regulations; and in 2013, a court order was issued compelling CARB to remedy substantive and procedural defects of the LCFS adoption process under CEQA.[76] However, the court allowed implementation of the LCFS to continue pending correction of the identified defects. In September 2015, CARB re-adopted the LCFS regulations. The LCFS would reduce GHG emissions by reducing the carbon intensity of transportation fuels used in California by at least 10% by 2020 and, as most recently amended in 2018, by at least 20% by 2030 and 90% in 2045, as compared to the 2010 baseline.[77]

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".[78]

In October 2022, CARB approved the Advanced Clean Fleets (ACF) regulation, which has requirements for fleets to phase in the use of ZEV from 2024 to 2042 and beyond. The fleets required to comply with the regulation include state and local government agency fleets,

[75] Carbon intensity is a measure of the GHG emissions associated with the various production, distribution, and use steps in the "lifecycle" of a transportation fuel.

[76] *POET, LLC v. CARB* (2013) 217 Cal.App.4th 1214.

[77] CARB. 2024. Low Carbon Fuel Standard Amendments SCH# 2023020330. Available at: https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2024/lcfs2024/nod.pdf. Accessed: January 2025.

[78] Advanced Clean Cars II Program. Available at: https://ww2.arb.ca.gov/advanced-clean-cars-ii-meetings-workshops. Accessed: January 2025.

high priority and federal fleets, and drayage fleets. The regulation also includes a requirement for manufacturers to only sell zero-emission trucks starting in 2036. The ACF regulation is meant to complement the ACT regulation and will contribute to meeting the goals set out in Governor Newsom's EO N-79-20. In July 2024, CARB requested a waiver of pre-emption from EPA, but withdrew the waiver request on January 13, 2025.

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 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, December 2011, and November 2022. The 2022 amendments were authorized by EPA on January 10, 2025. The overall purpose of the Off-Road Regulation is to reduce emissions of oxides of nitrogen and particulate matter from off-road diesel vehicles operating within California. The regulation applies to all self-propelled off-road diesel vehicles 25 horsepower 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 (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:[79]

[79] 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: January 2025.

- 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.

Tractor-Trailer Greenhous 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 electric vehicles and plug-in electric vehicles, such as battery electric vehicles and plug-in hybrid electric vehicles.

In 2012, Governor Brown issued 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 statewide 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 zero-emission vehicles to protect the environment, stimulate economic growth, and improve the quality of life in the State."[80]

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

[80] Executive Order B-16-2012. Available at: https://www.ca.gov/archive/gov39/2012/03/23/news17472/. Accessed: January 2025.

includes funding for multiple state agencies to increase electric vehicle (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*.[81] 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 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 electric vehicle chargers in homes, increase consumer awareness, address up-front 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*.[82] 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.

[81] 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. Accessed: January 2025.

[82] 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: January 2025.

In September 2018, the Governor's Interagency Working Group on Zero-Emission Vehicles published the 2018 ZEV Action Plan Priorities Update.[83] 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.

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.[84] 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.

California is incentivizing the purchase of ZEVs through implementation of the Clean Vehicle Rebate Project, 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 zero emission vehicles as follows:

- Hydrogen Fuel Cell Electric Vehicles: $5,000;
- Battery Electric Vehicles: $2,500;
- Plug-In Hybrid Electric Vehicles: $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).[85] 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

[83] 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: January 2025.

[84] CARB. 2020. Advanced Clean Trucks. Available at: https://ww2.arb.ca.gov/our-work/programs/advanced-clean-trucks. Accessed: January 2025.

[85] 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: January 2025.

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.[86] CARB approved the first of the four plans in July 2017.[87]

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."[88] 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.[89]

Other statewide 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 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.[90]
- The CalGreen standards require new residential and non-residential construction to be pre-wired to facilitate the future installation and use of electric vehicle chargers (see Section 4.106.4 and Section 5.106.5.3 of 2016 CalGreen standards for the residential and nonresidential pre-wiring requirements, respectively).

In January 2017, three of California's largest utilities submitted proposals to the 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 electric vehicle, additional fast charge infrastructure at targeted locations within the region, and rates that are designed to incentivize electric vehicle adoption.[91]
- Pacific Gas and Electric (PG&E) submitted an application that aims to expand the electrification of medium- and heavy-duty vehicle fleets, expand fast-charging

[86] 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: January 2025.

[87] CARB, 2017. CARB Approves $200 Million VW Zero-Emission Vehicle Investment in California, July, 27. Available at: https://ww2.arb.ca.gov/news/carb-approves-200-million-vw-zero-emission-vehicle-investment-california. Accessed: January 2025.

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

[89] Id. at p. 47.

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

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

stations that can refuel EVs in 20-30 minutes, and explore new uses for vehicle electrification.[92]

- 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 zero-emission vehicles, trucks, shuttles and delivery fleets.[93]

Executive Order N-79-20

On September 23, 2020, California Governor Gavin Newsom issued Executive Order 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 inter-agency efforts to support the Executive Order, 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 Executive Order 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.[94]

2.2.2.10 Water

In January 2014, Governor Brown signed EO B-29-15, which directed the State Water Resources Control Board to impose restrictions to reduce residential potable urban water usage; to implement water efficiency measures at commercial, industrial, and institutional properties; and to prohibit irrigation with potable water for certain uses. In addition, this directed the California Department of Water Resources to lead a statewide initiative to replace laws and ornamental turfs with drought tolerant landscapes.

Pursuant to the EO B-29-15, water-related standards were adopted as amendments to the 2013 CalGreen Code and carried over into the 2016 code.

Following EO-B-29-2015, Governor Brown signed EO-B-37-16 in May 2016 to promote more conscious consumer water use and to improve agricultural water use efficiency and drought planning.

2.2.2.11 Solid Waste Diversion

The California Integrated Waste Management Act of 1989, as modified by AB 341 (Chesbro, 2011), requires each jurisdiction's source reduction and recycling element to include an implementation schedule that shows: (1) diversion of 25 percent of all solid waste by

[92] 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).

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

[94] 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: January 2025.

January 1, 1995, through source reduction, recycling, and composting activities; (2) diversion of 50 percent of all solid waste on and after January 1, 2000; and (3) source reduction, recycling and composting of 75 percent of all solid waste on or after 2020, and annually thereafter. CalRecycle is required to develop strategies, including source reduction, recycling, and composting activities, to achieve the 2020 goal.

CalRecycle published a discussion document, entitled *California's New Goal: 75 Percent Recycling,* which identified concepts that would assist the State in reaching the 75 percent goal by 2020. Subsequently, in August 2015, CalRecycle released the *AB 341 Report to the Legislature*, which identifies five priority strategies for achievement of the 75 percent goal: (1) moving organics out of landfills; (2) expanding recycling/ manufacturing infrastructure; (3) exploring new approaches for State and local funding of sustainable waste management programs; (4) promoting State procurement of post-consumer recycled content products; and (5) promoting extended producer responsibility.

As discussed above, SB 1383 has launched a statewide effort to reduce organic waste disposal by 75% by 2025 and divert 20% of currently disposed surplus food to Californians in need by 2025.[95]

2.2.2.12 Draft Climate Adaptation Strategy

The 2022 California Climate Adaptation Strategy Implementation Report outlines the State's key climate resilience priorities, includes specific and measurable steps, and serves as a framework for action across sectors and regions in California.[96] The priorities outlined in the Strategy's website are as follows: 1) Strengthen Protections for Climate Vulnerable Communities, 2) Bolster Public Health and Safety to Protect Against Increasing Climate Risks, 3) Build a Climate Resilient Economy, 4) Accelerate Nature-Based Climate Solutions and Strengthen Climate Resilience of Natural Systems, 5) Make Decisions based on the Best Available Climate Science, and 6) Partner and Collaborate to Leverage Resources.

The next iteration of the California Climate Adaptation Strategy is already underway, with a draft available for review (the period for public comments closed on July 12, 2024).[97]

2.2.3 Regional

2.2.3.1 SJCOG Regional Transportation Plan and Sustainable Communities Strategy

As previously discussed, SB 375 requires SJCOG to incorporate a Sustainable Communities Strategy into its RTP that achieves the GHG emission reduction targets set by CARB. SJCOG's Sustainable Communities Strategy was first included in the 2014 Regional Transportation Plan & Sustainable Communities Strategy (RTP/SCS), which was adopted by SJCOG in June 2014. The original plan has since been superseded by the RTP/SCS adopted by SJCOG in March 2018, and more recently in August 2022.

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[95] CalRecycle. California's Short-Lived Climate Pollutant Reduction Strategy. Available at: https://calrecycle.ca.gov/organics/slcp/. Accessed: January 2025.

[96] California Natural Resources Agency. 2022. California Climate Adaptation Strategy: 2022 Implementation Report. Available at: https://climateresilience.ca.gov/overview/docs/20240405-Climate_Adpatation_Strategy_Report_2023.pdf. Accessed: January 2025.

[97] California Natural Resources Agency. 2024. Draft California Climate Adaptation Strategy. May. Available at: https://climateresilience.ca.gov/overview/docs/20240514-Draft_CA_Climate_Adaptation_Strategy_2024.pdf. Accessed: January 2025.

In general, the goals and policies of the Sustainable Communities Strategy are to improve mobility, accessibility, reliability, efficiency, liveability, sustainability, and equity. The Sustainable Communities Strategy adopted by SJCOG is expected to reduce per capita transportation emissions by 12% by 2020 and by 16% by 2035, as compared to 2005 baseline levels.

In September 2020, CARB accepted SJCOG's determination that the 2018 Sustainable Communities Strategy would meet the region's GHG reduction targets per Government Code Section 65080(b)(2)(J)(ii), as memorialized in CARB's Resolution 2018-26.[98] As of January 2024, CARB has not yet performed this review of the 2022 SJCOG RTP/SCS.

Pursuant to Government Code Section 65080(b)(2)(K), a Sustainable Communities Strategy does not: (i) regulate the use of land; (ii) supersede the land use authority of cities and counties; or (iii) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it.

2.2.3.2 San Joaquin Valley Air Pollution Control District

While CARB is responsible for the regulation of mobile emission sources within the State, local air quality management districts (AQMDs) and air pollution control districts (APCDs) are responsible for enforcing standards and regulating stationary sources. The Project area is located within the San Joaquin Valley Air Basin and is subject to the San Joaquin Valley Air Pollution Control District (SJVAPCD) guidelines and regulations.

In December 2009, SJVACPD issued its *Guidance for Valley Land-use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA* (Guidance). In its Guidance, the District recommends determining the significance of project-specific GHG emissions by using Best Performance Standards (BPS). Under the Guidance, a project's impacts on global climate change would be less than significant if the project implements BPS, or if the project reduces or mitigates its GHG emissions by 29 percent, consistent with the statewide GHG emission reduction targets established in the 2008 Scoping Plan. The District also adopted the *District Policy: Addressing GHG Emission Impacts for Stationary Source Projects Under CEQA When Serving as the Lead Agency*. This policy aligns with the Guidance process for evaluating GHG significance, specific to stationary source projects.

Also, in June 2014, the District released *APR – 2025, CEQA Determinations of Significance for Projects Subject to [CARB]'s GHG Cap-and-Trade Regulation* (APR – 2025). In APR - 2025, the District concluded that GHG emissions increases that are otherwise covered under CARB's Cap-and-Trade Program cannot constitute significant increases in emissions under CEQA for two separate reasons: (1) the Cap-and-Trade Program is an adopted statewide regulation for reducing GHG emissions from targeted industries/sources; and (2) GHG emissions addressed by the Cap-and-Trade Program are subject to an industry-wide, decreasing emissions cap. More specifically, the District concluded that "all GHG emission increases resulting from the combustion of any fuel produced, imported, and/or delivered in California are mitigated under Cap-and-Trade. Therefore, GHG emission

[98] CARB. Executive Order G-19-092. San Joaquin Council of Governments (SJCOG) 2018 Sustainable Communities Strategy CARB Acceptance of GHG Quantification Determination. Available at: https://ww2.arb.ca.gov/sites/default/files/2021-02/SJCOG%202018%20SCS%20CARB%20Acceptance%20of%20GHG%20Quantification%20Determination%20Executive%20Order_0.pdf. Accessed: January 2025.

increases caused by fuel use (other than jet fuels) are determined to have a less than significant impact on global climate change under CEQA."

In March 2015, the District issued its *Guidance for Assessing and Mitigating Air Quality Impacts* (GAMAQI), which provides technical guidance for the review of air quality impacts from proposed projects within the boundaries of the District.[99] This guidance recommends an approach for evaluating the significance of a proposed project's GHG emissions; specifically, whether a proposed project would have reduced or mitigated GHG emissions by 29%, consistent with GHG emission reduction targets established in the CARB's Scoping Plan. The guidance recommends the following hierarchy for evaluating a proposed project's impact with respect to its GHG emissions:

- Projects complying with an approved GHG emission reduction plan or GHG mitigation program which avoids or substantially reduces GHG emissions within the geographic area in which the project is located would be determined to have a less-than-significant individual and cumulative impact for GHG emissions. Such plans or programs must be specified in law or approved by the lead agency with jurisdiction over the affected resource and supported by a CEQA-compliant environmental review document adopted by the lead agency. Projects complying with an approved GHG emission reduction plan or GHG mitigation program would not be required to implement Best Performance Standards.
- Projects implementing Best Performance Standards would not require quantification of project-specific GHG emissions. Consistent with the CEQA Guidelines, such projects would be determined to have a less-than-significant individual and cumulative impact for GHG emissions.

While the GAMAQI discussions include a comparison to a BAU approach, the *Center for Biological Diversity v. California Department of Fish and Wildlife* Court Decision established additional standards for such an approach. Due to that court decision, the comparison to BAU approach will not be relied upon in this analysis.

2.2.3.3 San Joaquin County General Plan

The San Joaquin County General Plan is intended to serve as a comprehensive and long-term blueprint for future land use, development, preservation, and resource conservation decisions. The most recent General Plan was published in December 2016 with a time horizon of 2035. The General Plan was developed in consideration of State, local, and regional plans that may include land use and policy decision, including AB 32 as discussed in **Section 2.2.2.2** and the RTP/SCS available at time of publication (2014 SJCOG RTP/SCS) as discussed in **Section 2.2.3.1**. The goals, policies, and programs detailed in the General Plan are divided into sections including the Community Development Element, Public Facilities and Services Element, Public Health and Safety Element, and Resources Element. Further, Appendix A of the General Plan details the Sustainability Policies and Programs within each element intended to reduce GHG emissions and contribute to State GHG objectives.

[99] San Joaquin Valley Unified Air Pollution Control District. 2015. Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI). Available at: http://www.valleyair.org/transportation/GAMAQI.pdf. Accessed: January 2025.

2.2.4 Other CEQA Guidance

2.2.4.1 CAPCOA

CAPCOA 2008 CEQA & Climate Change White Paper

In January 2008, the California Air Pollution Control Officers Association (CAPCOA) published its *CEQA & Climate Change* white paper.[100] In the white paper, CAPCOA surveyed three options available to CEQA lead agencies for purposes of evaluating the significance of a project's GHG emissions, including identifying no significance thresholds for GHG emissions, setting a zero emissions threshold, or setting a non-zero emissions threshold. As to the non-zero thresholds, CAPCOA's white paper considered two approaches, one grounded in statute and executive order with four possible options, and one grounded in a tiered framework. As for the approach grounded in statute and executive order, CAPCOA identified four threshold concepts:

- Threshold 1.1: AB 32/S-3-05 Derived Uniform Percentage-Based Reduction;
- Threshold 1.2: Uniform Percentage-Based (e.g., 50 percent) Reduction for New Development;
- Threshold 1.3: Uniform Percentage-Based Reduction by Economic Sector; and
- Threshold 1.4: Uniform Percentage-Based Reduction by Region.

For purposes of the tiered framework approach, a project's GHG emissions would result in a less-than-significant impact provided one of the following criteria were achieved: (1) compliance with a general or regional plan in alignment with AB 32; (2) application of a CEQA exemption; (3) inclusion on the "green list;" (4) consistency with a qualified GHG reduction strategy; or (5) demonstration that quantified GHG emissions are less than significant. Tables 4 and 5 of the white paper identified advantages and disadvantages associated with all of the options presented for consideration.

CAPCOA 2010 Quantifying Greenhouse Gas Mitigation Measures

In August 2010, CAPCOA published its *Quantifying Greenhouse Gas Mitigation Measures* report, which presents information and analysis regarding the quantification of project-level mitigation of GHG emissions associated with land use, transportation, energy use, and other related project areas. CAPCOA and its contractors conducted an extensive literature review in order to provide reliable and substantiated evidentiary bases for the quantification protocols presented in the report; as such, individual GHG reduction measures are accompanied by "fact sheets" that set forth the relevant parameters for the quantification calculations.

CAPCOA 2021 Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity

In December 2021, CAPCOA published the final draft of the *Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity* report, which builds upon CAPCOA's previous efforts to provide accurate

[100] CAPCOA is a non-profit association of the air pollution control officers from all 35 local air quality agencies throughout California.

and reliable quantification measures.[101] This Handbook identifies and evaluates new and emerging GHG reduction measures and removed outdated measures from the 2010 Handbook. The purpose of the Handbook is to provide local governments with accurate, reliable, and standardized emission reduction quantification methods for land use, climate action, and long-term planning. It also aims to support and enhance the consideration of climate vulnerabilities, health, and equity during the planning process.

2.2.4.2 Association of Environmental Professionals

AEP Beyond 2020 White Paper

In March 2015, the Association of Environmental Professionals (AEP) released its draft *Beyond 2020: The Challenge of Greenhouse Gas Reduction Planning by Local Governments in California* (Beyond 2020) white paper.[102] In the white paper, AEP presented evidence showing that it is infeasible for a local jurisdiction to achieve EO S-3-05's 2050 reduction target (i.e., 80 percent below 1990 levels) absent a real post-2020 State plan of action. As such, AEP recommended assessing project significance in relation to the 2050 reduction target by asking whether a project would "impede substantial progress in local, regional, and State GHG emissions reductions over time toward long-term GHG reduction targets."

AEP Beyond 2020 and Newhall White Paper

In April 2016, AEP released its draft *Beyond 2020 and Newhall: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California* (Beyond 2020 and Newhall) white paper. In the white paper, AEP surveyed the following significance threshold concepts for utilization in CEQA-oriented GHG emissions analysis: consistency with qualified GHG reduction plans; bright line values; efficiency metrics; hybrid metrics that separate transportation and non-transportation emissions; best management practices; regulatory compliance; and percent reductions from business as usual. In doing so, AEP identified the present circumstances as a "transitional period" due to the absence of comprehensive State planning for post-2020, non-legislatively adopted, statewide targets.

[101] CAPCOA. 2021. Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Available at: http://www.airquality.org/ClimateChange/Documents/Final%20Handbook_AB434.pdf. Accessed: January 2025.

[102] AEP is a non-profit association of public and private sector professionals with a common interest in serving the principles underlying CEQA.

3. SIGNIFICANCE THRESHOLDS

3.1 CEQA Guidelines on GHG Emissions

In 2007, SB 97 was enacted and directed OPR and the California Natural Resources Agency to prepare amendments to the CEQA Guidelines addressing the analysis of GHG emissions under CEQA. Following formal rulemaking, a series of amendments to the CEQA Guidelines were adopted to provide the general framework for the analysis of GHG emissions, and became effective in 2010. The amendments do not provide a mandatory, quantitative rubric for GHG emissions analysis, but instead provide general guidance and recognize long-standing CEQA principles regarding the discretion afforded to lead agencies where supported by substantial evidence. More specifically, CEQA Guidelines Section 15064.4(a) recognizes that the "determination of the significance" of GHG emissions "calls for careful judgment by the lead agency" in accordance with the more general provisions of CEQA Guidelines Section 15064; each agency "shall have discretion to determine" whether to conduct quantitative or qualitative analysis, provided its determination is supported by substantial evidence. Section 15064.4 was most recently amended by OPR and the California Natural Resources Agency in December 2018.

The analysis provided in this report evaluates the significance of the Project's GHG emissions by reference to the following questions from Section VIII, Greenhouse Gases, of Appendix G of the CEQA Guidelines:

Threshold 1. Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Threshold 2. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

3.2 Other Guidance

SJVAPCD has adopted guidance documents for assessing and mitigating GHG impacts on global climate change. Rather than establishing specific numeric thresholds of significance (as in the case of criteria pollutant emissions), the SJVAPCD guidance utilizes a tiered approach to assess cumulative impacts on global climate change. Notably, the SJVAPCD establishes that a project can demonstrate compliance with an approved GHG emissions reduction program (such as CARB's statewide GHG Cap-and-Trade Program). Furthermore, SJVAPCD's December 2009 CEQA GHG policies and its 2015 GAMAQI states that a project whose emissions have been reduced or mitigated consistent with the California Global Warming Solutions Act of 2006 (AB 32) should be considered to have a less than significant impact on global climate change.[103] SJVAPCD has not adopted a numerical GHG threshold.

3.3 Project Approach to Significance

This report, relative to Threshold 1, quantifies the Project's GHG emissions during operation and construction for disclosure and in the absence of a numerical GHG significance threshold will evaluate consistency with the SJCOG RTP/SCS, 2022 CARB Scoping Plan, and San Joaquin Valley General Plan to determine significance of the Project's GHG emissions. This report, relative to Threshold 2, evaluates the Project for consistency with applicable plans related to GHG emissions at the state and regional levels.

[103] SJVAPCD. 2015. Final Draft Guidance for Assessing and Mitigating Air Quality Impacts. Available at: http://www.valleyair.org/transportation/GAMAQI.pdf. Accessed: January 2024.

4. PROJECT GHG EMISSIONS INVENTORY

This section describes the methodology that Ramboll used to develop the GHG emission inventories associated with the Project, which include one-time emissions (construction emissions and emissions due to vegetation changes), and operational emissions. Sub-categories of GHG operational emissions include: **area sources, energy use**, **water supply and wastewater**, **solid waste, refrigerants,** and **mobile sources**.

4.1 Measurement, Resources and Baseline Condition

4.1.1 Units of Measurement: Tonnes of CO_2 and CO_2e

In this report, the term "GHGs" includes gases that contribute to the natural greenhouse effect, such as CO_2, CH_4, N_2O, and water, as well as gases that are only man-made and that are emitted through the use of modern industrial products, such as HFCs and chlorofluorocarbons (CFCs). GHG emissions are typically measured in terms of mass of CO_2e. CO_2e are calculated as the product of the mass of a given GHG and its specific GWP, as described in **Section 2.1**. GWPs of 25 and 298 were used for CH_4 and N_2O, respectively, for this analysis. In many sections of this report, including the final summary sections, emissions are presented in units of CO_2e either because the GWPs of CH_4 and N_2O were accounted for explicitly, or the CH_4 and N_2O are assumed to contribute a negligible amount of GWP when compared to the CO_2 emissions from that particular emissions category.

In this report, a tonne refers to MT (1,000 kilograms). Additionally, exact totals presented in all tables and report sections may not equal the sum of components due to independent rounding of numbers.

4.1.2 Resources

4.1.2.1 CalEEMod® Methodology

Ramboll primarily utilized the California Emissions Estimator Model (CalEEMod®) version 2022.1.1[104] methodology to assist in quantifying the GHG emissions in the inventories presented in this report for the Project. CalEEMod® provides methodology to calculate both construction emissions and operational emissions from a land use development project, and can be used to calculate total or annual GHG emissions. Specifically, the model methodology aids the user in the following calculations:

- One-time short-term construction emissions associated with demolition, site preparation, grading, building construction, paving, and architectural coating phases from off-road construction equipment, and on-road mobile equipment associated with workers, vendors, and hauling.
- One-time vegetation sequestration changes, such as permanent vegetation land use changes and new tree plantings.
- Operational emissions associated with the fully built out land use development, such as on-road mobile vehicle traffic generated by the land uses, off-road emissions from landscaping equipment, natural gas usage in the buildings, electricity usage in the buildings, water usage by the land uses, refrigeration usage in the buildings, and solid waste disposal by the land uses.

[104] SCAQMD. 2022. California Emissions Estimator Model®. Available at: https://www.caleemod.com/. Accessed: January 2025.

CalEEMod® is a statewide program designed to calculate both criteria pollutant and GHG emissions from development projects in California developed under the auspices of the South Coast Air Quality Management District (SCAQMD), with input from other California air districts, and is currently supported by numerous lead agencies for use in quantifying the emissions associated with development projects undergoing environmental review. CalEEMod® utilizes widely accepted models for emission estimates combined with appropriate default data that can be used if site-specific information is not available. These models and default estimates use sources such as the USEPA AP-42 emission factors,[105] CARB's on-road and off-road equipment emission models such as the EMission FACtor model (EMFAC) and the Emissions Inventory Program model (OFFROAD), and studies commissioned by California agencies such as the CEC and CalRecycle.

As mentioned above, CalEEMod® is based upon the CARB-approved OFFROAD and EMFAC models. OFFROAD[106] is an emission factor model used to calculate emission rates from off-road mobile sources (e.g., construction equipment, agricultural equipment). The off-road diesel emission factors used by CalEEMod® are based on the CARB OFFROAD2017-ORION program. EMFAC is an emission factor model used to calculate emissions rates from on-road vehicles (e.g., passenger vehicles). CalEEMod® 2022.1.1 contains EMFAC2021 emission factors. The latest version of EMFAC is the CARB EMFAC2021 program.[107]

In addition, CalEEMod® contains default values and existing regulation methodologies to use in each specific local air district region. Appropriate statewide default values can be utilized if regional default values are not defined. Ramboll used default factors for the San Joaquin County area (within the SJVAPCD's jurisdiction) for the emissions inventory, unless otherwise noted in the methodology descriptions below.

Details regarding the specific methodologies used by CalEEMod® can be found in the CalEEMod® User's Guide and associated appendices.[108]

4.1.2.2 Other Resources

Ramboll directly or indirectly relied on emissions estimation guidance from government-sponsored organizations, government-commissioned studies of energy use patterns, Project-specific studies (e.g., Fehr & Peer's CEQA Transportation Impact Analysis Report[109]), and emission estimation software as described above. In cases noted below, third-party studies were also relied upon to support analyses and assumptions made outside of the approach described above.

[105] The USEPA maintains a compilation of Air Pollutant Emission Factors and process information for several air pollution source categories. The data is based on source test data, material balance studies, and engineering estimates. Available at: https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emissions-factors. Accessed: January 2025.

[106] CARB. 2011. Off Road Mobile Source Emission factors. Available at: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory. Accessed: January 2025.

[107] CARB. 2021. EMFAC2021. Available at: https://ww2.arb.ca.gov/our-work/programs/mobile-source-emissions-inventory/msei-modeling-tools-emfac-software-and. Accessed: January 2025.

[108] SCAQMD. 2022. California Emissions Estimator Model®. Available at: https://www.caleemod.com/. Accessed: January 2025.

[109] Fehr & Peers. 2024. Draft CEQA Transportation Impact Analysis Report For Pacific Gateway. 2024.

4.1.3 Indirect GHG Emissions from Electricity Use

Project-related electricity use results in indirect emissions, due to electricity generation activities occurring at off-site power plant locations. For the Project, electrical power will be supplied by PG&E. The indirect GHG emissions created as a result of Project-related electricity use are calculated through application of the following methodology.

For purposes of electricity use, intensity factors are GHG emission rates from a given source relative to the energy generation activities, and are expressed in terms of the amount of GHG released per megawatt of energy produced. The default electricity intensity factors for PG&E in CalEEMod® for CO_2, CH_4, and N_2O are 203.983, 0.033, and 0.004 pounds (lbs) of GHG per megawatt-hour, respectively. The CalEEMod® CO_2 default factor is based on the emission factor provided to Sacramento Metro Air Quality Management District by PG&E. The CH_4 and N_2O default factors are based on E-Grid values for the Western Electricity Coordinating Council California and Mexico (CAMX) region. PG&E's Power/Utility Protocol (PUP) reports show that renewable energy sources do not result in any new CO_2 emissions.

While CalEEMod®'s emission factors for CH_4 and N_2O conservatively were used for this project, CalEEMod®'s CO_2 intensity factor was modified based on PG&E's 2023 and 2024 Corporate Sustainability Reports, to account for the Renewables Portfolio Standard's (RPS) requirement for 2030 (i.e., 60 percent RPS). The 2022 and 2023 mix of renewable and non-renewable energy sources in PG&E's energy supply were both used to calculate the intensity factors for PG&E's non-renewable energy. (For disclosure purposes, PG&E's current RPS is 33 percent.)[110] The PG&E data provides the basis for the estimate of the intensity factors for the non-renewable energy; and this data is used to project what the intensity factors will be when the Project reaches build-out. The intensity factor for CO_2 is calculated by multiplying the percentage of energy delivered by PG&E from non-renewable energy resources with the intensity factor for non-renewable energy, and modified as discussed in **Section 4.3.4** below.

4.2 One-Time Emissions

One-time emissions are those emissions that are not reoccurring over the life of the Project. This includes emissions associated with construction and emissions associated with land use changes.

4.2.1 Construction Emissions

This section describes the estimation of GHG emissions from construction activities at the Project site. While the exact construction schedule and equipment mix may vary from the current analysis, the GHG emissions are not expected to be higher than that calculated given the conservative assumptions included in this analysis.

The major construction phases included in this analysis are:

- Demolition: involves removing buildings or structures.
- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.

[110] PG&E. 2024 Corporate Responsibility and Sustainability Report. Available at: https://www.pgecorp.com/assets/pgecorp/csr/csr_2024/assets/pge-csr-2024.pdf. Accessed: January 2025.

- Grading: involves the cut and fill of land to ensure the proper base and slope for the construction foundation.
- Building Construction: involves the construction of structures and buildings.
- Paving: involves the laying of concrete or asphalt such as in parking lots or roads.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and curbs, and the painting of the walls or other components such as stair railings inside parking structures.

GHG emissions from these construction phases are attributable to fuel use from construction equipment usage onsite and from on-road worker, vendor, and hauling trips.

Ramboll primarily used CalEEMod® to quantify the construction emissions. The modeled construction schedule is shown in **Table 4-1**. Construction of the Project is expected to occur over several phases, with the construction of each Industrial Development Area (Initial, East, West, and Central) being completed prior to the commencement of the following Development Area. The construction of the University Center and Gateway Center Development Areas are expected to occur on an independent schedule, concurrently with construction of the industrial development areas. This schedule serves as a reasonably representative estimate of the phasing anticipated for this project at this time, however ultimately construction scheduling will be dependent on market demand.

The construction off-road equipment list and off-road equipment specifications are based on CalEEMod® model defaults. Project-specific demolition assumptions were based on an assessment of existing structures present within each development area as shown in **Table 4-2**. Land use information associated with the construction of each development area can be found in CalEEMod® outputs as included in **Appendix A**.

4.2.1.1 Emissions from On-Road Construction Trips

Construction generates on-road vehicle GHG emissions from personal vehicles for worker and vendor commuting, and trucks for soil and material hauling. These emissions are based on the number of trips and VMT, along with emission factors from EMFAC. Default model trip rates were used for construction. The emissions from mobile sources were calculated in CalEEMod® with the trip rates, trip lengths, and emission factors for running exhaust from EMFAC as follows:[111]

$$\text{Emissions}_{\text{pollutant}} = \text{VMT} * \text{EF}_{\text{running, pollutant}}$$

Where:

$\text{Emissions}_{\text{pollutant}}$ = emissions from vehicle running for each pollutant

VMT = vehicle miles traveled

$\text{EF}_{\text{running, pollutant}}$ = emission factor for running emissions

On-road construction trip emissions are presented in the CalEEMod® output in **Appendix A**.

[111] SCAQMD. 2022. California Emissions Estimator Model®. Available at: https://www.caleemod.com/. Accessed: January 2025.

4.2.1.2 Emissions from Construction Equipment

The emissions associated with construction equipment are from off-road equipment engine use based on the equipment list and construction phase length, and on-road vehicle trips and phase length.

Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod® assumes all of the equipment operates on diesel fuel. The calculations include the running exhaust emissions from off-road equipment. Since the equipment is assumed to be diesel, there are no starting emissions associated with the equipment, as these are *de minimis* for diesel-fueled equipment. The exhaust emissions are calculated based on CARB's OFFROAD2011 methodology using the equation presented below.[112]

$$\text{Emissions}_{\text{Diesel}} = \sum_{i} \left(\text{EF}_i \times \text{Pop}_i \times \text{AvgHP}_i \times \text{Load}_i \times \text{Activity}_i \right)$$

Where:

EF	=	Emission factor in grams per horsepower-hour (g/bhp-hr) as processed from OFFROAD2011
Pop	=	Population, or the number of pieces of equipment
AvgHp	=	Maximum rated average horsepower
Load	=	Load factor
Activity	=	Hours of operation
i	=	equipment type

Emissions for off-road construction equipment for each phase of construction are detailed in **Appendix A**.

4.2.1.3 Total Construction Emissions

The Project construction emissions were run within CalEEMod® to generate the annual emissions. The total emissions from construction from all phases for off-road and on-road emissions are shown in **Table 4-3**. Please note that CalEEMod® only allows for constructions emissions estimation up until 2050, so additional phases in CalEEMod® were run using calendar year 2050 to calculate emissions for construction activities occurring in year 2051 and beyond. This is assumed to be a conservative approach since it is expected that emission factors would decrease over time due to regulations likely becoming more stringent in the future.

4.2.2 Vegetation Changes

Vegetation changes that occur as a result of land use development constitute a one-time change in the carbon sequestration capacity of a project site. Vegetation changes from existing conditions were assessed using CalEEMod® based on the transition from Cropland to the Urban vegetation land use type and the average of the site as shown in **Table 4-4**.

[112] SCAQMD. 2022. California Emissions Estimator Model®. Available at: https://www.caleemod.com/. Accessed: January 2025.

4.3 Annual Operational Emissions

This section describes the estimation of GHG emissions from operational activities at the Project site. The operational emissions were calculated with CalEEMod® and separately for miscellaneous sources including the operation of operational off-road combustion equipment, stationary sources, and transport refrigeration units (TRUs). Operational GHG emissions are calculated for landscaping, natural gas and electricity usage, on-road mobile trips, water usage, solid waste generated, and refrigeration usage. Operational emissions are evaluated for the first year of Project Initial Phase Operation in 2032 and first year of Project Operation in 2057. Where emission factors or other inputs were not available for 2057 due to model constraints, the latest year with available data (i.e., 2050) was used as substitute. Land use information for the initial phase and project buildout can be found in CalEEMod® outputs as included in **Appendix A**.

4.3.1 Area Sources

Area sources are direct sources of GHG emissions, such as emissions from landscaping activities. The area source GHG emissions included in this analysis are landscaping-related fuel combustion sources, such as lawn mowers.

4.3.2 Mobile Sources

The GHG emissions associated with on-road mobile sources are generated from workers, vendors, and haul trucks travelling to and from the Project site. The GHG emissions associated with on-road mobile sources include running and starting exhaust emissions. Running emissions are dependent on VMT. Starting emissions are associated with the number of starts or time between vehicle uses and the assumptions used in determining these values are described below. Ramboll calculated Project-specific mobile source CalEEMod® inputs using trip rates and trip length information based on analyses conducted by Fehr & Peers.

Mobile emissions estimated using CalEEMod® includes the benefit of reductions from some adopted regulatory programs, which are accounted within EMFAC2021 as follows:

- AB 1493 ("the Pavley Standard") required CARB to adopt regulations by January 1, 2005, to reduce GHG emissions from non-commercial passenger vehicles and light-duty trucks of model year 2009 and thereafter. EMFAC2021 includes emission reductions for non-commercial passenger vehicles and light-duty trucks of model year 2017 – 2025.
- The ACC program adopted by CARB, introduced in 2012, combines the control of smog, soot causing pollutants and GHG emissions into a single coordinated package of requirements for model years 2015 through 2025. EMFAC2021 includes reductions associated with this regulation that are represented in this analysis.
- The USEPA/NHTSA advanced fuel economy and GHG standards (Phase 1) were adopted in 2011 for medium and heavy-duty trucks for model years 2014-2018.[113] This Heavy-Duty National Program is intended to reduce fuel use and GHG emissions from medium- and heavy-duty vehicles, semi-trucks, pickup trucks and vans, and all types

[113] USEPA, Office of Transportation and Air Quality. 2011. Available at: https://www.gpo.gov/fdsys/pkg/FR-2011-09-15/pdf/2011-20740.pdf. Accessed: January 2025.

and sizes of work trucks and buses in between. EMFAC2021 includes reductions associated with this regulation that are represented in this analysis.

- The USEPA/NHTSA advanced fuel economy and GHG standards (Phase 2) were adopted in 2016 for medium- and heavy-duty trucks for model years 2018 and beyond.[114] The Phase 2 program includes technology-advancing standards that substantially reduce GHG emissions and fuel consumption resulting in an ambitious, yet achievable, program that will allow manufacturers to meet the applicable standards over time, at reasonable cost, through a mix of different technologies. The Phase 2 program's standards will be phased in, beginning with model year 2021 and culminating with model year 2027.[115]

In June 2020, CARB released EMFAC off-model adjustment factors to account for the Final Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule.[116] The SAFE Rule has been incorporated into this analysis as it is incorporated in EMFAC2021.

CalEEMod® does not include the benefit of reductions not accounted for within EMFAC2021, including:

- The Advanced Clean Cars II (ACC II) was adopted in 2022 for light-duty passenger car, pickup truck, and SUV emissions starting in 2026 through 2035. The regulation would require an increasing number of zero-emission vehicles and amends the low-emission vehicle regulations to increase stringency of emission standards for light-duty vehicles. EMFAC2021 does not include reductions associated with this regulation and thus reductions are not incorporated into this analysis.
- The Heavy-Duty Inspection and Maintenance (HD I/M) Program, also known as Clean Truck Check, was adopted in 2021. This regulation includes roadside emissions monitoring to screen for high-emitting vehicles, improved emissions testing procedures, periodic emissions data reporting, and compliance verification for freight contractors, seaports, and railyards. EMFAC2021 does not include reductions associated with this regulation and thus reductions are not incorporated into this analysis.
- The Advanced Clean Fleets (ACF) regulation was adopted in 2023. The regulation requires qualifying fleets to reduce emissions through the phase-in of zero-emission vehicles and a requirement for truck manufacturers to only manufacture zero-emission trucks starting in 2036. EMFAC2021 does not include reductions associated with this regulation and thus reductions are not incorporated into this analysis.

Inclusion of these additional regulation-driven reductions would reduce mobile impacts beyond what is presented in this analysis, thus mobile-related emissions presented in this report represent a conservative estimate of Project impacts.

[114] USEPA, Office of Transportation and Air Quality. 2016. Available at: https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf. Accessed: January 2024.

[115] The emission reductions attributable to Phase 2 of the regulations for medium- and heavy-duty trucks were not included in the Project's emissions inventory due to the difficulty in quantifying the reductions. Excluding these reductions results in a more conservative (i.e., higher) estimate of emissions for the Project.

[116] CARB. 2020. EMFAC Off-Model Adjustment Factors for Carbon Dioxide (CO_2) Emissions to Account for the SAFE Vehicles Rule Part One and the Final SAFE Rule. Available at: https://ww2.arb.ca.gov/sites/default/files/2023-02/emfac_off_model_co2_adjustment_factors_06262020-final.pdf. Accessed: January 2025.

4.3.2.1 Estimating Mobile Source Emissions

Mobile source emissions calculation requires trip rates and trip lengths for each different trip type in the Project (e.g., employee, vendor, and haul truck).

The following sections describe the methodology to derive the necessary inputs.

Trip Generation Rates

The trip generation rates for the Project were based on Fehr & Peers data. The trip rates for the operational mobile trips are shown in **Table 4-5** and **Table 4-6**, respectively.

Trip Lengths

The Project trip lengths were primarily based on Fehr & Peers analysis and CalEEMod® defaults. The trip lengths for the operational mobile trips are shown in **Table 4-5, Table 4-6, Table B-2,** and **Table C-2**.

Fleet Mix

The fleet mixes derived based on CalEEMod® and EMFAC2021 were used to determine the mix of light-duty vehicles used for auto vehicles. The heavy-duty trucks were assumed to be heavy-heavy-duty trucks. The fleet mixes for the operational mobile trips are shown in **Table B-1** and **Table C-1** of **Appendix B** and **Appendix C**, respectively.

Transport Refrigeration Units

The Project includes TRUs, which are refrigeration systems powered by diesel internal combustion engines designed to refrigerate or heat perishable products that are transported in various containers, including truck vans, semi-truck trailers, shipping containers, and railcars. These TRUs were assumed to account for approximately 5% of the warehouse delivery trucks, based on a Project-specific assumption that 5% of warehouse land use would be comprised of refrigerated warehouse. OFFROAD2021 has emission factors for TRUs, which were obtained for San Joaquin County in 2032 for the Initial Phase and 2050 for Buildout. Emissions of CO_2 from TRUs were estimated, as shown in **Table 4-7** and **Table 4-8**.

4.3.3 Water Supply, Treatment and Distribution

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute the Project's water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Additionally, direct CH_4 and N_2O emissions result from the treatment of wastewater. Water demand and wastewater generation values were based on CalEEMod® defaults.

The water usage and associated GHG emissions are shown in **Appendix A**.

4.3.4 Energy Use

Energy usage within buildings (e.g., electricity and natural gas fuelled equipment) contribute to the Project’s GHG inventory. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions.

To estimate GHG emissions from the natural gas and electricity usage for the Project, Ramboll utilized CalEEMod® default assumptions, which incorporate Title 24 2019 Standards. **Table 4-7** identifies the emission factors for electricity (i.e., pounds of CO_2 per megawatt-hour delivered) used in this analysis. As illustrated in **Table 4-9**, a PG&E -specific emission

factor that accounts for interpolation between the 60 percent RPS required by 2030 and the 100 percent RPS required by 2045 was calculated as discussed in **Section 4.1.3**. GHG emissions from electricity in 2057 was assumed to be zero based on a requirement that all the state's electricity come from carbon-free resources by 2045.

To estimate GHG emissions from the combustion of fuel from warehouse offroad equipment and the wastewater treatment facility diesel generator, Ramboll utilized emission factors from OFFROAD2021 and AP-42, respectively. **Tables 4-10** and **Table 4-11** identifies the emission factors and emissions used in this analysis. Warehouse offroad equipment estimates were based on studies conducted by South Coast Air Quality Management District (South Coast AQMD). Specifications for the wastewater treatment facility diesel generator were based on generators present at similar facilities.

The annual natural gas and electricity use and corresponding GHG emissions for the Project are shown in CalEEMod® outputs provided in **Appendix A**. The calculations for the GHG emissions associated with the additional electricity consumption from electric forklift chargers is shown in **Table 4-12**.

4.3.5 Solid Waste

Municipal solid waste (MSW) is the amount of material that is disposed of by landfilling, recycling, or composting. CalEEMod® calculates the indirect GHG emissions associated with waste that is disposed of at a landfill. The program uses annual waste disposal rates from the CalRecycle data for individual land uses. CalEEMod® uses the overall California Waste Stream composition to generate the necessary types of different waste disposed into landfills. The program quantifies the GHG emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon. The program quantifies the CO_2 emissions associated with the combustion of methane, if applicable. Default landfill gas concentrations were used as reported in Section 2.4 of AP-42. The IPCC has a similar method to calculate GHG emissions from MSW in its 2006 Guidelines for National Greenhouse Gas Inventories.

Solid waste generation associated with the Project is based on default values for waste generation in CalEEMod®. The Project's solid waste generation and GHG emissions associated with solid waste are shown in CalEEMod® outputs provided in **Appendix A.**

4.3.6 Refrigerants

A portion of the Project's industrial land uses are expected to utilize cold storage operations. CalEEMod® calculates the fugitive GHG emissions associated with the leakage or servicing of refrigerant in various equipment. **Table 4-13** identifies the rate of refrigerant usage associated with the operation of cold storage equipment anticipated for industrial land uses within the Project.

The annual refrigerant use and corresponding GHG emissions for the Project are shown in CalEEMod® outputs provided in **Appendix A**.

4.4 Total Annual Operational Emissions

As shown in **Table 4-14**, prior to the application of mitigation measures, the initial phase emissions are 85,119 MT CO_2e per year and the emissions from vegetation changes are 22 MT CO_2e/yr. The total GHG emissions from initial phase construction are 23,892 MT CO_2e and are summarized in **Appendix A** for construction off-road equipment and mobile trips. When amortized over a period of 30 years, the emission estimates for the initial phase

construction become 796 MT CO_2e/yr.[117] The total GHG emissions include the amortized construction emissions and amortized vegetation emissions.

Similarly shown in **Table 4-14**, prior to the application of mitigation measures, the Project buildout emissions are 475,540 MT CO_2e per year and the emissions from vegetation changes are 158 MT CO_2e/yr. The total GHG emissions from Project buildout construction are 226,691 MT CO_2e and are summarized in **Appendix A** for construction off-road equipment and mobile trips. When amortized over a period of 30 years, the emission estimates for the Project buildout construction become 7,556 MT CO_2e/yr.[118] The total GHG emissions include the amortized construction emissions and amortized vegetation emissions.

[117] This approach to one-time construction and vegetation change GHG emissions is based on the GHG Threshold Working Group Meeting #13 Minutes from August 26, 2009. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-13/ghg-meeting-13-minutes.pdf. Accessed: January 2025.

[118] This approach to one-time construction and vegetation change GHG emissions is based on the GHG Threshold Working Group Meeting #13 Minutes from August 26, 2009. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-13/ghg-meeting-13-minutes.pdf. Accessed: January 2025.

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 GHG reductions associated with these measures are described as follows.

5.1.1 MM-GHG-1 (Solar PV)

The proposed project is incorporating solar PV panels for "Base Building" energy needs for limited industrial zoned buildings. As shown in **Tables 4-12 and 6-1**, GHG emissions reductions associated with this measure was assessed based on the amount of electricity required to cover warehouse-related Title 24 electricity consumption and an estimate of forklift charging.

5.1.2 MM-GHG-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). As described in **Table 4-10**, GHG emission reductions associated with this measure were 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.

6. PROJECT INVENTORY IN CONTEXT

This section assesses the significance of the Project's emissions for purposes of CEQA.

6.1 Project Emissions Inventory

This section evaluates the significance of the Project's GHG emissions by reference to Threshold 1 from Section VIII, Greenhouse Gases, of Appendix G of the CEQA Guidelines:

Threshold 1. Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

6.1.1 Mitigated GHG Inventory

The implementation of project mitigation measures are anticipated to result in a reduction of GHGs. With these PDFs as shown in **Table 6-1**, the initial phase GHG emissions were calculated to be 70,099 MT CO_2e per year and the buildout GHG emissions were calculated to be 392,443 MT CO_2e per year. In the absence of a numerical GHG threshold, the significance of these emissions will be based on consistency with the SJCOG RTP/SCS, 2022 CARB Scoping Plan, and San Joaquin Valley General Plan as discussed below.

6.2 Consistency Analysis

This section evaluates the significance of the Project's GHG emissions by reference to Threshold 2 from Section VIII, Greenhouse Gases, of Appendix G of the CEQA Guidelines:

Threshold 2. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

6.2.1 Statewide Emissions Reduction Targets

A recent study[119] shows that the existing and proposed regulatory framework will allow the State to reduce GHG emissions to 40 percent below 1990 levels by 2030, and to 60 percent below 1990 by 2050. Even though this study did not provide a regulatory and technology roadmap to achieve the 2050 target of 80 percent below 1990 levels by 2050, it demonstrated that various combinations of policies could allow statewide emissions to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the study could allow the State to meet the 2050 target.

Statewide efforts are underway to facilitate the State's achievement of its 2050 target and it is reasonable to expect the Project's emissions to decline as the regulatory initiatives identified by CARB in its 2017 Scoping Plan are implemented, new regulatory programs or incentives are implemented to reduce GHG emissions, and other technological innovations occur. Many of these initiatives include reducing the carbon content of motor fuels and fuels

[119] Jeffery Greenblatt. 2015. Modeling California Impacts on Greenhouse Gas Emissions. Energy Policy. Volume 78, May 2015, pages 158-172. Abstract available at: https://escholarship.org/uc/item/9n62b5xv. Accessed: January 2025.

for electricity generation.[120] Reducing the carbon content of motor fuels and fuels for electricity generation will reduce CO_2e emissions from this Project over time.

The Project will be consistent with the state's GHG reduction goals as discussed in the 2022 CARB Scoping Plan. The Project's emissions sources are regulated (and are foreseeably expected to continue to be regulated in the future) in furtherance of the State's environmental policy objectives and the Project will continue to meet those regulations to continually improve and reduce GHG emissions. Updates to regulation and improvements to technology will be incorporated into future construction as available, resulting in a reduction of GHG emissions beyond what is presented in this analysis.

As demonstrated in **Table D-1** in **Appendix D**, the Project would be consistent with applicable 2022 California Scoping Plan strategies for the reduction of GHG emissions.

6.2.2 San Joaquin Council of Governments (SJCOG)

The Project will be consistent with the state's GHG reduction goals and strategies as discussed in the SJCOG's 2022 Regional Transportation Plan/Sustainable Communities Strategy[121] (the current RTP/SCS for the region), which contains four key elements:

1. Policy Element– Sets forth SJCOG's transportation goals, objectives, and policies for each transportation mode.
2. Sustainable Communities Strategy – Integrates land use and transportation planning efforts to meet San Joaquin County's greenhouse gas emission reduction targets, improve accessibility to major employment and other regional activity centers.
3. Action Element – Describes the existing transportation system, discusses recent accomplishments, provides a transportation needs assessment, and proposes short-term and long-term actions for both transportation planning and actual transportation project improvements.
4. Financial Element – Identifies both existing and anticipated revenue sources as well as the financing techniques available for the region's planned transportation investments, ongoing operations, and maintenance.

The RTP/SCS is based on an analysis that considers the entire County, and includes all projects involving changes in regional growth and land use in San Joaquin County, as well as the countywide vehicle traffic projections. Cumulative GHG emissions analyzed in the RTP were compared to regional GHG thresholds and analyzed under statewide plans and regulations. This analysis concluded that there would be a decrease in GHG emissions from existing conditions to 2046, which are primarily be due to focusing growth in developed areas, moderately increasing residential densities, encouraging infill development, protecting

[120] The extent to which GHG emissions from traffic at the project will change in the future depends on the quantity (e.g., number of vehicles, average daily mileage) and quality (i.e., carbon content) of fuel that will be available and required to meet both regulatory standards and residents' needs. In addition, renewable power requirements, low carbon fuel standards, and vehicle emissions standards discussed above will all decrease GHG emissions per unit of energy delivered or per vehicle mile travelled.

California Energy Commission. 2007. State Alternative Fuels Plan. December. CEC-600-2007-011-CMF. Available at: https://web.archive.org/web/20190225162513/https://www.energy.ca.gov/2007publications/CEC-600-2007-011/CEC-600-2007-011-CMF.PDF. Accessed: January 2025.

[121] SJCOG. 2022 Regional Transportation Plan and Sustainable Communities Strategy. Available at: https://www.sjcog.org/608/Adopted-2022-RTPSCS-Plan. Accessed: January 2025.

open space and agricultural land, and providing alternatives to single-occupancy vehicle trips.

As shown in **Table D-2** in **Appendix D**, the Project would be consistent with applicable SJCOG strategies for the reduction of GHG emissions.

6.2.3 San Joaquin County General Plan

The Project will be consistent with the policies and programs established in the 2035 San Joaquin County General Plan.

The General Plan was developed in consideration of other state, local, and regional plans and guidance, including AB 32 and the SJCOG RTP/SCS. Thus, a demonstration of consistency with the measures established in the General Plan would indicate consistency with the County's vision for aligning with state objectives to meet GHG goals and standards.

As shown in **Table D-3** in **Appendix D**, the Project would be consistent with applicable General Plan strategies for the reduction of GHG emissions.

6.3 Impact Determination

While the Project would represent an increase in GHG emissions when compared to the existing conditions on the vacant site, the Project would not conflict with the SJCOG's RTP/SCS, statewide emission reduction targets in the 2022 CARB Scoping Plan Update, or the policies detailed in the San Joaquin County General Plan. Therefore, the Project's GHG emissions will be less than significant in the context of Threshold 1 and Threshold 2, as discussed in **Section 3.3**.

Further, the SJVAPCD's GAMAQI observes that: "It is widely recognized that no single project could generate sufficient GHG emissions to noticeably change global climate temperature. However, the combination of GHG emissions from past, present, and future projects could contribute substantially to global climate change. Thus, project specific GHG emissions should be evaluated in terms of whether or not they would result in a cumulatively significant impact on global climate change."[122] In this context, and based on the analysis above which includes several mitigation measures, the Project's GHG emissions are not cumulatively considerable and thus can be considered **less than significant**.

[122] SJVAPCD. 2015. Final Draft Guidance for Assessing and Mitigating Air Quality Impacts. Available at: http://www.valleyair.org/transportation/GAMAQI.pdf. Accessed: January 2025.

TABLES

Table 4-1. Construction Schedule
Pacific Gateway
San Joaquin County, California

Development Area	CalEEMod® Phase Type[1]	Start Date[1]	End Date[1]	Phase Duration[2] (days)
Initial Phase	Site Preparation	1/1/2026	3/8/2026	57
	Grading	3/9/2026	8/25/2026	146
	Building Construction	8/26/2026	4/27/2031	1,462
	Paving	4/28/2031	8/26/2031	104
	Architectural Coating	8/27/2031	12/25/2031	104
Pacific Gateway East	Site Preparation	1/1/2032	3/28/2032	75
	Grading	3/29/2032	11/10/2032	195
	Building Construction	11/11/2032	2/1/2039	1,949
	Paving	2/2/2039	7/12/2039	138
	Architectural Coating	7/13/2039	12/20/2039	138
Pacific Gateway Central	Demolition	1/1/2038	1/5/2038	4
	Site Preparation	1/6/2038	4/25/2038	94
	Grading	4/26/2038	2/2/2039	243
	Building Construction	2/3/2039	11/11/2046	2,433
	Paving	11/12/2046	5/31/2047	173
	Architectural Coating	6/1/2047	12/19/2047	173
Pacific Gateway West[3]	Site Preparation	1/1/2047	4/19/2047	94
	Grading	4/20/2047	1/29/2048	244
	Building Construction	1/30/2048	11/10/2055	2,436
	Paving	11/11/2055	5/30/2056	173
	Architectural Coating	5/31/2056	12/18/2056	173
University Center	Demolition	1/1/2032	3/4/2032	55
	Site Preparation	3/5/2032	9/13/2032	165
	Grading	9/14/2032	1/6/2034	412
	Building Construction	1/7/2034	1/3/2047	4,067
	Paving	1/4/2047	12/22/2047	302
	Architectural Coating	12/23/2047	12/8/2048	302
Gateway Center	Site Preparation	1/1/2032	6/20/2032	147
	Grading	6/21/2032	8/23/2033	368
	Building Construction	8/24/2033	3/23/2045	3,626
	Paving	3/24/2045	2/1/2046	270
	Architectural Coating	2/2/2046	12/13/2046	270

Notes:

[1] Construction phases and duration are based on Project-specific estimates.

[2] The construction work week was assumed to be 6 days per week.

[3] Due to limitations in CalEEMod®, construction mobile and offroad equipment emission factors are not available in calendar year 2051 and beyond. Thus, calendar year 2050 was used in CalEEMod® to estimate emissions for construction activities occurring in these years.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

Table 4-2. Construction Demolition Assumptions
Pacific Gateway
San Joaquin County, California

Phase Name	Size Metric	Unit Amount[1]
Phase 1 (Initial Phase)	Building sqft	0
Phase 2 (East)	Building sqft	0
Phase 3 (Central)	Building sqft	12,336
Phase 4 (West)	Building sqft	0
Phase 5 (University Center)	Building sqft	41,713
Phase 6 (Gateway Center)	Building sqft	0

Notes:

[1] Square-footage quantity based on a review of GoogleEarth.

Abbreviations:

sqft - square foot

Table 4-3. Summary of Construction GHG Emissions
Pacific Gateway
San Joaquin County, California

Scenario	Year	Construction GHG Emissions Estimates[1,2] (MT CO_2e/yr)
Initial Phase	2026	2413.0
	2027	5108.0
	2028	5011.0
	2029	4893.0
	2030	4782.0
	2031	1685.0
Buildout	2032	3531.0
	2033	9493.0
	2034	12306.0
	2035	12114.0
	2036	11942.0
	2037	11729.0
	2038	12435.0
	2039	11582.0
	2040	11021.0
	2041	10882.0
	2042	10771.0
	2043	10686.0
	2044	10643.0
	2045	9964.0
	2046	8803.2
	2047	1578.0
	2048	5480.0
	2049	5429.0
	2050	5413.0
	2051	5413.0
	2052	5413.0
	2053	5413.0
	2054	5413.0
	2055	4686.3
	2056	658.4

Notes:

[1] Total emissions for project construction were estimated using CalEEMod® (see Appendix A).

[2] Emissions are presented as CO_2e, which include CO_2, CH_4, and N_2O emissions, weighted by their respective global warming potentials.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator M
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
MT - metric tonnes
GHG - greenhouse gases
MT - metric tons
N_2O - nitrous oxide
yr - year

Table 4-4. Vegetation Land Use Change Assumptions
Pacific Gateway
San Joaquin County, California

Soil Carbon Accumulation				
Vegetation Land Use Type[1]	**Vegetation Soil Type[2]**	**CO_2 Accumulation[3] (MT CO_2e/yr)**	**Initial Acres[1]**	**Final Acres[1]**
Initial Phase				
Cropland	Inceptisols	0.82	226	0
Urban	Inceptisols	0	0	226
Buildout				
Cropland	Inceptisols	0.82	1,577	0
Urban	Inceptisols	0	0	1,577

Above and Belowground Biomass Carbon Accumulation			
Cover Type[1]	**CO_2 Accumulation[3] (MT CO_2e/yr)**	**Initial Acres[1]**	**Final Acres[1]**
Initial Phase			
Broadleaf Forest	2.23	226	0
Grassland	0.44	0	34
Urban	0	0	192
Buildout			
Broadleaf Forest	2.23	1,577	0
Grassland	0.44	0	173
Urban	0	0	1,404

Notes:

[1] Vegetation Land Use Type, Cover Type, Initial Acres and Final Acres are based on Project-specific data.

[2] Vegetation Soil Type at the Project location was determined using UC Davis' SoilWeb online geospatial tool. Inceptisols and vertisols are present at the Project location and have the same CO_2 Accumulation value of 0.82 MT CO_2e/yr. Inceptisols was chosen to represent the Project Vegetation Soil Type.

[3] CO_2 Accumulation is based on CalEEMod® default values.

Abbreviations:

CalEEMod® - California Emissions Estimator Model
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalent
MT - metric ton
UC Davis - University of California, Davis
yr - year

Table 4-5. Trip Rates, Trip Type Percentages, Trip Lengths, and Vehicle Miles Traveled by Operational Mobile Sources (Autos)
Pacific Gateway
San Joaquin County, California

Phase	Fehr & Peers Land Use Type	Land Use Type[1]	CalEEMod®		Land Use Size[1]		Daily Trips[2,3,4,5,6] (trips/day)	Daily VMT[2,4] (miles/day)	Fleet Mix[7]					
			Land Use Category[1]	Proposed Land Use Subtype[1]	Quantity	Size Metric			LDA	LDT1	LDT2	MDV	LHDT1	LHDT2
Initial	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	Commercial	General Office Building	11.5	ksf	330	3,696	52%	3%	24%	17%	3%	1%
	--	Other Surfaces	Parking	Other Non-Asphalt Surfaces	1,070.6	ksf	0	0	52%	3%	24%	17%	3%	1%
	--	VFW Parking	Parking	Parking Lot	1,038.7	ksf	0	0	52%	3%	24%	17%	3%	1%
	University (University Campus)	University	Educational	University/College (4Yr)	400.0	students	622	9,765	52%	3%	24%	17%	3%	1%
	Limited Industrial (Warehouse)[11]	General Industrial (Initial Phase)	Industrial	Industrial Park	3,962.0	ksf	4,240	167,772	52%	3%	24%	17%	3%	1%
	--	Public Facilities (Fire Station)	Commercial	Government Office Building	113.1	ksf	0	0	52%	3%	24%	17%	3%	1%
	--	Roadway	Parking	Other Asphalt Surfaces	2,917.4	ksf	0	0	52%	3%	24%	17%	3%	1%
	--	Open Space	Recreational	City Park	885.9	ksf	0	0	52%	3%	24%	17%	3%	1%
Buildout	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	Commercial	General Office Building	11.5	ksf	331	4,158	52%	3%	26%	16%	2%	1%
	--	Public Facilities (Fire Station)	Commercial	Government Office Building	113.1	ksf	0	0	52%	3%	26%	16%	2%	1%
	University (University Campus)	University	Educational	University/College (4Yr)	5,000	students	7,272	115,625	52%	3%	26%	16%	2%	1%
	Limited Industrial (Warehouse)[11]	General Industrial	Industrial	Industrial Park	24,675.0	ksf	26,402	808,575	52%	3%	26%	16%	2%	1%
	EV Charging Lot	Industrial Parking/ Non-Industrial Parking	Parking	Parking Lot	6,685.1	ksf	77	16	52%	3%	26%	16%	2%	1%
	--	Other Surfaces	Parking	Other Non-Asphalt Surfaces	4,958.8	ksf	0	0	52%	3%	26%	16%	2%	1%
	--	Open Space	Recreational	City Park	8,565.3	ksf	0	0	52%	3%	26%	16%	2%	1%
	Convenience Store/Gas Station	Retail	Retail	Gasoline/Service Station	20.0	ksf	0	0	52%	3%	26%	16%	2%	1%
	Shopping Plaza	Retail	Retail	Strip Mall	43.9	ksf	1,526	11,603	52%	3%	26%	16%	2%	1%
	Business Professional (Office)[11]	Business Park	Commercial	Office Park	93.0	ksf	1,017	29,307	52%	3%	26%	16%	2%	1%
	--	Industrial Parking/Other Surfaces/Roadway	Parking	Other Asphalt Surfaces	15,154.5	ksf	0	0	52%	3%	26%	16%	2%	1%
	Business Hotel	Commercial Retail/ Service	Recreational	Hotel	60.0	ksf	480	3,298	52%	3%	26%	16%	2%	1%
	Fast-Food Restaurant with Drive-Through Window	Recreational	Recreational	Fast Food Restaurant with Drive Thru	13.6	ksf	6,348	43,597	52%	3%	26%	16%	2%	1%
	Sit-Down Restaurant	Recreational	Recreational	High Turnover (Sit Down Restaurant)	14.0	ksf	856	5,886	52%	3%	26%	16%	2%	1%
	Fast Casual Restaurant	Recreational	Recreational	Fast Food Restaurant w/o Drive Thru	4.0	ksf	389	2,676	52%	3%	26%	16%	2%	1%
	--	Parking	Parking	Unenclosed parking with elevator	874	spaces	0	0	52%	3%	26%	16%	2%	1%
	Convenience Store/Gas Station	Retail	Retail	Convenience Market (24 hour)	8.0	ksf	2,762	18,976	52%	3%	26%	16%	2%	1%
	Bank with Drive-Through Window	Commercial	Commercial	Bank (with Drive-Through)	5.0	ksf	502	3,450	52%	3%	26%	16%	2%	1%
	--	University	Residential	Apartments (Mid Rise)	1,600	dwelling un	0	0	52%	3%	26%	16%	2%	1%

Table 4-5. Trip Rates, Trip Type Percentages, Trip Lengths, and Vehicle Miles Traveled by Operational Mobile Sources (Autos)
Pacific Gateway
San Joaquin County, California

Phase	Fehr & Peers Land Use Type	Land Use Type[1]	Project Trip Rates[8] (trips/size metric/day)			% Trip Type[9]			Average Non-Residential Trip Lengths[10] (miles/trip)		
			Weekday	Saturday	Sunday	Primary %	Diverted %	Pass-By %	H-W	W-O	O-O
Initial	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	28.69565	28.69565	28.69565	100%	0%	0%	11.2	11.2	11.2
	--	Other Surfaces	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	--	VFW Parking	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	University (University Campus)	University	1.55500	1.55500	1.55500	100%	0%	0%	15.7	15.7	15.7
	Limited Industrial (Warehouse)[11]	General Industrial (Initial Phase)	1.07017	1.07017	1.07017	100%	0%	0%	39.6	39.6	39.6
	--	Public Facilities (Fire Station)	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	--	Roadway	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	--	Open Space	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
Buildout	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	28.8	28.8	28.8	100%	0%	0%	12.6	12.6	12.6
	--	Public Facilities (Fire Station)	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	University (University Campus)	University	1.5	1.5	1.5	100%	0%	0%	15.9	15.9	15.9
	Limited Industrial (Warehouse)[11]	General Industrial	1.1	1.1	1.1	100%	0%	0%	30.6	30.6	30.6
	EV Charging Lot	Industrial Parking/ Non-Industrial Parking	0.0	0.0	0.0	100%	0%	0%	0.2	0.2	0.2
	--	Other Surfaces	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	--	Open Space	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	Convenience Store/Gas Station	Retail	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	Shopping Plaza	Retail	34.8	34.8	34.8	100%	0%	0%	7.6	7.6	7.6
	Business Professional (Office)[11]	Business Park	10.9	10.9	10.9	100%	0%	0%	28.8	28.8	28.8
	--	Industrial Parking/Other Surfaces/Roadway	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	Business Hotel	Commercial Retail/ Service	8.0	8.0	8.0	100%	0%	0%	6.9	6.9	6.9
	Fast-Food Restaurant with Drive-Through Window	Recreational	466.8	466.8	466.8	100%	0%	0%	6.9	6.9	6.9
	Sit-Down Restaurant	Recreational	61.1	61.1	61.1	100%	0%	0%	6.9	6.9	6.9
	Fast Casual Restaurant	Recreational	97.3	97.3	97.3	100%	0%	0%	6.9	6.9	6.9
	--	Parking	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0
	Convenience Store/Gas Station	Retail	345.3	345.3	345.3	100%	0%	0%	6.9	6.9	6.9
	Bank with Drive-Through Window	Commercial	100.4	100.4	100.4	100%	0%	0%	6.9	6.9	6.9
	--	University	0.0	0.0	0.0	100%	0%	0%	0.0	0.0	0.0

Notes:

[1] Land uses are based on Project-specific information.

[2] Daily trips and VMT are based on data provided by Fehr & Peers.

[3] Internal trips within the Gateway Center and University Center were not included in the total daily trips for autos because these trips are assumed to be non-auto trips (i.e., walk or bike), based on information from Fehr & Peers.

[4] Land uses with zero trips are not expected to generate any new trips, based on data provided by Fehr & Peers.

[5] Total pass-by trips provided by Fehr & Peers within the Gateway Center development area were distributed to each land use based on the ratio of gross trips.

[6] Total University trips, including trips from the University and University apartments, provided by Fehr & Peers were assigned to the University/College (4Yr) CalEEMod Land Use Subtype.

[7] Fleet mix is based on auto-specific vehicle types. See Tables B-1 and C-1 for fleet mix calculations.

[8] Project trip rates are based on total daily trips divided by land use size. Project trip rates were conservatively assumed to apply to both weekday and weekend travel.

[9] The trip type was set to 100% primary to align with the VMT and trip data from Fehr & Peers.

[10] Average non-residential trip Lengths were calculated based on total daily VMT divided by total daily trips.

[11] Total primary auto trips for Limited Industrial (Warehouse) and Office autos were provided by Fehr & Peers. Total Daily VMT was calculated based on home-based work VMT provided by Fehr & Peers. W-O and O-O VMT were calculated based on CalEEMod defaults. See Tables B-2 and C-2 for detailed calculations.

Abbreviations

CalEEMod® - California Emissions Estimator Model
H-W - home-work
ksf - thousand square feet
LDA - Light-Duty Automobile
LDT - Light-Duty Truck
LHDT - Light Heavy-Duty Truck
MDV - Medium-Duty Vehicle
O-O - other-other
VFW - Veterans of Foreign Wars
VMT - vehicle miles travelled
W-O - work-other
Yr - year

Table 4-7. Trip Rates, Trip Type Percentages, Trip Lengths, and Vehicle Miles Traveled by Operational Mobile Sources (Trucks)
Pacific Gateway
San Joaquin County, California

Phase	Fehr & Peers Land Use Type	Land Use Type[1]	CalEEMod®		Land Use Size[1]		Daily Trips[2,3,4,5] (trips/day)	Daily VMT[2] (miles/day)	Fleet Mix[6]	Project Trip Rates[7] (trips/size metric/day)		
			Land Use Category[1]	Proposed Land Use Subtype[1]	Quantity	Size Metric			HHDT	Weekday	Saturday	Sunday
Initial	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	Commercial	General Office Building	11.5	ksf	0	0	100%	0.0	0.0	0.0
	--	Industrial Parking/Other Surfaces	Parking	Other Non-Asphalt Surfaces	1,070.6	ksf	0	0	100%	0.0	0.0	0.0
	--	VFW Parking	Parking	Parking Lot	1,038.7	ksf	0	0	100%	0.0	0.0	0.0
	University (University Campus)	University	Educational	University/College (4Yr)	400.0	students	2	86	100%	0.00500	0.00500	0.00500
	Limited Industrial (Warehouse)	General Industrial (Initial Phase)	Industrial	Industrial Park	3,962.0	ksf	1,782	76,448	100%	0.44977	0.44977	0.44977
	--	Public Facilities (Fire Station)	Commercial	Government Office Building	113.1	ksf	0	0	100%	0.0	0.0	0.0
	--	Roadway	Parking	Other Asphalt Surfaces	2,917.4	ksf	0	0	100%	0.0	0.0	0.0
	--	Open Space	Recreational	City Park	885.9	ksf	0	0	100%	0.0	0.0	0.0
Buildout	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	Commercial	General Office Building	11.5	ksf	0	0	100%	0.0	0.0	0.0
	--	Public Facilities (Fire Station)	Commercial	Government Office Building	113.1	ksf	0	0	100%	0.0	0.0	0.0
	University (University Campus)	University	Educational	University/College (4Yr)	5,000	students	20	880	100%	0.004	0.004	0.004
	Limited Industrial (Warehouse)	General Industrial	Industrial	Industrial Park	24,675.0	ksf	11,103	488,532	100%	0.45	0.45	0.45
	EV Charging Lot	Industrial Parking/Non-Industrial Parking	Parking	Parking Lot	6,685.1	ksf	288	58	100%	0.04	0.04	0.04
	--	Other Surfaces	Parking	Other Non-Asphalt Surfaces	4,958.8	ksf	0	0	100%	0.00	0.00	0.00
	--	Open Space	Recreational	City Park	8,565.3	ksf	0	0	100%	0.00	0.00	0.00
	Convenience Store/Gas Station	Retail	Retail	Gasoline/Service Station	20.0	ksf	720	144	100%	36.00	36.00	36.00
	Shopping Plaza	Retail	Retail	Strip Mall	43.9	ksf	20	880	100%	0.46	0.46	0.46
	Business Professional (Office)	Business Park	Commercial	Office Park	93.0	ksf	8	352	100%	0.09	0.09	0.09
	--	Industrial Parking/Other Surfaces/Roadway	Parking	Other Asphalt Surfaces	15,154.5	ksf	0	0	100%	0.00	0.00	0.00
	Business Hotel	Commercial Retail/ Service	Recreational	Hotel	60.0	ksf	2	88	100%	0.03	0.03	0.03
	Fast-Food Restaurant with Drive-Through Windo	Recreational	Recreational	Fast Food Restaurant with Drive Thru	13.6	ksf	10	440	100%	0.74	0.74	0.74
	Sit-Down Restaurant	Recreational	Recreational	High Turnover (Sit Down Restaurant)	14.0	ksf	2	88	100%	0.14	0.14	0.14
	Fast Casual Restaurant	Recreational	Recreational	Fast Food Restaurant w/o Drive Thru	4.0	ksf	2	88	100%	0.50	0.50	0.50
	--	Parking	Parking	Unenclosed parking with elevator	874	spaces	0	0	100%	0.00	0.00	0.00
	Convenience Store/Gas Station	Retail	Retail	Convenience Market (24 hour)	8.0	ksf	4	176	100%	0.50	0.50	0.50
	Bank with Drive-Through Window	Commercial	Commercial	Bank (with Drive-Through)	5.0	ksf	0	0	100%	0.00	0.00	0.00
	--	University	Residential	Apartments (Mid Rise)	1,600	dwelling units	0	0	100%	0.00	0.00	0.00

Table 4-6. Trip Rates, Trip Type Percentages, Trip Lengths, and Vehicle Miles Traveled by Operational Mobile Sources (Trucks)
Pacific Gateway
San Joaquin County, California

Phase	Fehr & Peers Land Use Type	Land Use Type[1]	% Trip Type[8]			Average Non-Residential Trip Lengths[9] (miles/trip)		
			Primary %	Diverted %	Pass-By %	H-W	W-O	O-O
Initial	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	100%	0%	0%	0.0	0.0	0.0
	--	Industrial Parking/Other Surfaces	100%	0%	0%	0.0	0.0	0.0
	--	VFW Parking	100%	0%	0%	0.0	0.0	0.0
	University (University Campus)	University	100%	0%	0%	42.9	42.9	42.9
	Limited Industrial (Warehouse)	General Industrial (Initial Phase)	100%	0%	0%	42.9	42.9	42.9
	--	Public Facilities (Fire Station)	100%	0%	0%	0.0	0.0	0.0
	--	Roadway	100%	0%	0%	0.0	0.0	0.0
	--	Open Space	100%	0%	0%	0.0	0.0	0.0
Buildout	VFW Tracy Post (VFW Building)	Community Center (VFW Hall)	100%	0%	0%	0.0	0.0	0.0
	--	Public Facilities (Fire Station)	100%	0%	0%	0.0	0.0	0.0
	University (University Campus)	University	100%	0%	0%	44.0	44.0	44.0
	Limited Industrial (Warehouse)	General Industrial	100%	0%	0%	44.0	44.0	44.0
	EV Charging Lot	Industrial Parking/Non-Industrial Parking	100%	0%	0%	0.2	0.2	0.2
	--	Other Surfaces	100%	0%	0%	0.0	0.0	0.0
	--	Open Space	100%	0%	0%	0.0	0.0	0.0
	Convenience Store/Gas Station	Retail	100%	0%	0%	0.2	0.2	0.2
	Shopping Plaza	Retail	100%	0%	0%	44.0	44.0	44.0
	Business Professional (Office)	Business Park	100%	0%	0%	44.0	44.0	44.0
	--	Industrial Parking/Other Surfaces/Roadway	100%	0%	0%	0.0	0.0	0.0
	Business Hotel	Commercial Retail/ Service	100%	0%	0%	44.0	44.0	44.0
	Fast-Food Restaurant with Drive-Through Windo	Recreational	100%	0%	0%	44.0	44.0	44.0
	Sit-Down Restaurant	Recreational	100%	0%	0%	44.0	44.0	44.0
	Fast Casual Restaurant	Recreational	100%	0%	0%	44.0	44.0	44.0
	--	Parking	100%	0%	0%	0.0	0.0	0.0
	Convenience Store/Gas Station	Retail	100%	0%	0%	44.0	44.0	44.0
	Bank with Drive-Through Window	Commercial	100%	0%	0%	0.0	0.0	0.0
	--	University	100%	0%	0%	0.0	0.0	0.0

Notes:

[1] Land uses are based on Project-specific information.

[2] Daily Trips and VMT are based on data provided by Fehr & Peers.

[3] Land uses with zero trips are not expected to generate any new trips, based on data provided by Fehr & Peers.

[4] Total pass-by trips provided by Fehr & Peers within the Gateway Center development area were distributed to each land use based on the ratio of gross trips.

[5] Total University trips, including trips from the University and University apartments, provided by Fehr & Peers were assigned to the University/College (4Yr) CalEEMod Land Use Subtype.

[6] Fleet mix is based on truck-specific vehicle types. See Tables B-1 and C-1 for fleet mix calculations.

[7] Project trip rates are based on total daily trips divided by land use size. Project trip rates were conservatively assumed to apply to both weekday and weekend travel.

[8] The trip type was set to 100% primary to align with the VMT and trip data from Fehr & Peers.

[9] Average Non-Residential Trip Lengths were calculated based on total daily VMT divided by total daily trips.

Abbreviations

CalEEMod® - California Emissions Estimator Model
HHDT - Heavy Heavy-Duty Truck
H-W - home-work
ksf - thousand square feet
MHDT - Medium Heavy-Duty Truck
O-O - other-other
VFW - Veterans of Foreign Wars
VMT - vehicle miles travelled
W-O - work-other
Yr - year

Table 4-7. TRU Greenhouse Gas Emission Calculations at Initial Phase Buildout
Pacific Gateway
San Joaquin County, California

CO_2 Emission Factor[1] (g/bhp-hr)	Annual Number of Round Trips with TRUs[2]	Annual Average CO_2 Emissions (MT/year)
395.7	16,261	851

Notes:

[1] Emission factors obtained from OFFROAD2021 emissions output for Calendar Year 2032, Transportation Refrigeration Unit - Instate Trailer and Transportation Refrigeration Unit - Out-Of-State Trailer in San Joaquin Valley (SJV).

[2] Approximately 5% of trucks for the Land Use, General Industry are assumed to be equipped with TRUs. The number of trucks equipped with TRUs for the Land Use type, University are assumed to be insignificant and are therefore not included in the estimation of TRU round trips.

[3] Horsepower is based on SJVAPCD Guidance for Air Dispersion Modeling, Appendix A, Section 2.3.1 Transportation Refrigeration unit (TRU), Modeling Parameters. Available at: http://valleyair.org/busind/pto/tox_resources/modeling%20guidance%20w_o%20pic.pdf. Accessed: January 2025.

[4] Load factor obtained from CARB 2021 Update to Emissions Inventory for Transport Refrigeration Units. Available at: https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/apph.pdf. Accessed: January 2025.

[5] TRU Cycle Duration is based on 2 hours of off-site loading time, 2 hours of on-site unloading time, plus 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: January 2025.

Abbreviations:

bhp-hr - brake horsepower hour
CARB - California Air Resources Board
CO_2 - Carbon Dioxide equivalents
g - gram
MT - metric tonnes
SJVAPCD - San Joaquin Valley Air Pollution Control District
TRU - Transportation Refrigeration unit

Constants:

Horsepower [3]	50	bhp
Load Factor [4]	0.38	
TRU Cycle Duration [5]	417	minutes
Density of Diesel	3,221	g/gal

Conversion Factors:

453.592	g/lb
1,000,000	g/MT
60	min/hr
365	day/year
2000	lb/ton

Table 4-8. TRU Criteria Air Pollutant On-Site Emission Calculations at Full Buildout
Pacific Gateway
San Joaquin County, California

CO_2 Emission Factor[1] (g/bhp-hr)	Annual Number of Round Trips with TRUs[2]	Annual Average CO_2 Emissions (MT/year)
395.6	101,315	5,353

Notes:

[1] Emission factors obtained from OFFROAD2021 emissions output for Calendar Year 2050, Transportation Refrigeration Unit - Instate Trailer and Transportation Refrigeration Unit - Out-Of-State Trailer in San Joaquin Valley. Emission factors are not available after calendar year 2050. Therefore, calendar year 2050 emission factors were used to represent emission factors for calendar year 2057.

[2] Approximately 5% of trucks for the Land Use, General Industrial are assumed to be equipped with TRUs. The number of trucks equipped with TRUs for the Land Use type, University are assumed to be insignificant and are therefore not included in the estimation of TRU round trips.

[3] Horsepower is based on SJVAPCD Guidance for Air Dispersion Modeling, Appendix A, Section 2.3.1 Transportation Refrigeration unit (TRU), Modeling Parameters. Available at: http://valleyair.org/busind/pto/tox_resources/modeling%20guidance%20w_o%20pic.pdf. Accessed: January 2025.

[4] Load factor obtained from CARB 2021 Update to Emissions Inventory for Transport Refrigeration Units. Available at: https://ww2.arb.ca.gov/sites/default/files/barcu/board/rulemaking/tru2021/apph.pdf. Accessed: January 2025.

[5] TRU Cycle Duration is based on 2 hours of off-site loading time, 2 hours of on-site unloading time, plus 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: January 2025.

Abbreviations:

bhp-hr - brake horsepower hour
CARB - California Air Resources Board
CO_2 - Carbon Dioxide equivalents
g - gram
MT - metric tonnes
SJVAPCD - San Joaquin Valley Air Pollution Control District
TRU - Transportation Refrigeration unit

Constants:

Horsepower [3]	50	bhp
Load Factor [4]	0.38	
TRU Cycle Duration [5]	422	minutes
Density of Diesel	3,221	g/gal

Conversion Factors:

453.592	g/lb
1000000	g/MT
60	min/hr
365	day/year
2000	lb/ton

Table 4-9. Utility GHG Emission Factor Associated with Renewable Portfolio Standard
Pacific Gateway
San Joaquin County, California

Energy Delivered [MWh]				
	2022	**2023**	**Average**	**Units**
CO_2 Intensity Factor per Total Energy Delivered[1]	56	12	34	lbs CO_2/MWh delivered
% of Total Energy From Renewables[2,3]	38.5%	33.0%	35.8%	
CO_2 Intensity Factor per Total Non-Renewable Energy[4]	91	18	53	lbs CO_2/MWh delivered

Calculated Intensity Factors for Total Energy Delivered[5]				
2027 RPS (52%)	43.7	8.6	25.4	lbs CO_2/MWh delivered
2030 RPS (60%)	36.4	7.2	21.2	lbs CO_2/MWh delivered
2045 RPS (100%)	0.0	0.0	0.0	lbs CO_2/MWh delivered
2032 RPS[6]	31.6	6.2	18.3	lbs CO_2/MWh delivered
2057 RPS[7]	0.0	0.0	0.0	lbs CO_2/MWh delivered

Year	**Emission Factors (lb/MWh)**			
	CO_2	**CH_4**	**N_2O**	**CO_2e**
2032	18.3	0.033	0.004	20.4
2057	0.00	0.000	0.000	0.0

Notes:

[1]2022 and 2023 intensity factors per total energy delivered available at: https://www.pgecorp.com/assets/pgecorp/csr/csr_2024/assets/pge-csr-2024.pdf. Accessed: January 2025.

[2]2022 percent of total energy from RPS-eligible renewables available at: https://www.pgecorp.com/assets/pgecorp/localized/en/sustainability/corporate-responsibility-sustainability/reports/2023/downloads/PGE_CSR_2023.pdf. Accessed: January 2025.

[3]2023 percent of total energy from RPS-eligible renewables available at: https://www.pgecorp.com/assets/pgecorp/csr/csr_2024/assets/pge-csr-2024.pdf. Accessed: January 2025.

[4] The emissions metric presented here is calculated based on the total CO_2 emissions divided by the energy delivered from non-renewable sources.

[5] The intensity factors for default RPS assumption are calculated by multiplying the percentage of energy delivered from non-renewable energy by the CO_2 emissions per total non-renewable energy metric calculated above. The emission factors presented here are 52% RPS for 2027, 60% RPS for 2030, and 100% RPS for 2045. The estimate provided here and the PUP reports issued by PG&E assume that renewable energy sources do not result in any CO_2 emissions.

[6] The RPS percentage for the 2032 future year is interpolated from the goals of 60% RPS in 2030 and 100% RPS in 2045.

[7] The carbon intensity in 2057 future year will be 0 lbs CO_2/MWh delivered as the goal in 2045 and onward is 100% renewables, per the RPS.

[8] The most recent emission factor available is for 2022 and 2023, which is why these values are being used to interpolate 2032 emission factors even though more recent sustainability reports by PG&E are available.

Abbreviations:

CO_2 - carbon dioxide
GHG - greenhouse gases
lbs - pounds
MT - metric tonnes
MWh - megawatt-hour
PG&E - Pacific Gas and Electric
PUP - Power/Utility Protocol
RPS - Renewable Portfolio Standards

GWP	
CH_4	**N_2O**
25	298

Table 4-10. Offroad Equipment Greenhouse Gas Emission Calculations
Pacific Gateway
San Joaquin County, California

OFFROAD Equipment	Fuel Type	Project Phase Details			Average Combustion Equipment Usage[1,2]		Mitigated Average Combustion Equipment Usage[1,2,3]		OFFROAD2021 EFs[3,4] (lbs/hr)	Unmitigated Emissions[5] (MT/yr)	Mitigated Emissions[3,5] (MT/yr)
		Project Phase	Operation Year	Project Land Use	Equipment Population	Annual Hours of Use	Equipment Population	Annual Hours of Use	CO_2	CO_2	CO_2
Yard Truck	Diesel	Initial Phase	2032	General Industrial (Initial Phase)	15	21,450	1	1,430	76.99	749	50
		Pacific Gateway East	2057	General Industrial	26	37,180	2	2,860	78.02	1,316	101
		Pacific Gateway West	2057	General Industrial	23	32,890	0	0	78.02	1,164	0
		Pacific Gateway Central	2057	General Industrial	25	35,750	2	2,860	78.02	1,265	101
		Gateway Center	2057	General Industrial	2	2,860	2	2,860	78.02	101	101
Forklift	Diesel	Initial Phase	2032	General Industrial (Initial Phase)	475	1,388,285	19	55,217	24.11	15,180	604
		Pacific Gateway East	2057	General Industrial	859	2,509,661	56	162,525	23.47	26,718	1,730
		Pacific Gateway West	2057	General Industrial	740	2,161,576	0	0	23.47	23,012	0
		Pacific Gateway Central	2057	General Industrial	823	2,402,508	64	185,815	23.47	25,577	1,978
		Gateway Center	2057	General Industrial	63	184,090	64	185,641	23.47	1,960	1,976
									Total Offroad Emissions (Initial Phase)	15,929	654
									Total Offroad Emissions (Buildout)	97,042	6,642

Notes:

[1] SCAQMD Rule 2305 Second Draft Staff Report, Chapter 3. Warehouses greater than 200,000 sqft operate an average of 3.6 yard trucks per million square feet of warehouse space, and the off-road yard trucks are estimated to operate for 1,430 hours per year. Available at: http://www.aqmd.gov/docs/default-source/planning/fbmsm-docs/pr-2305_sr_2nd-draft_4-7-21_clean.pdf. Accessed: January 2025.

[2] LBA Logistics EIR 2021. Appendix B. Based on a 2014 SCAQMD Survey, an average of 0.12 forklifts per 1,000 square feet. Forklifts are assumed to operate 8 hours per day, 365 days per yet. Available at: https://files.ceqanet.opr.ca.gov/266135-4/attachment/ZZ4NAT7Mt9jFgb_-p1Zq8FKUksmhz0jHLSja_j4XbcjAR_uh1pdylTl-isnTBffLgeF50tlWW5ZWRdMW0. Accessed: January 2025.

[3] To represent the project mitigation measure regarding zero-emission forklift and yard truck equipment, the following assumptions were made. A total of 157,583 square feet of industrial warehouse was assumed to utilize combustion-based equipment in the Initial Phase and a total of 1,681,500 square feet of industrial warehouse was assumed to utilize combustion-based equipment in Project Buildout based on Project-specific information for buildings under this threshold. The remainder of these equipment were assumed to be zero-emission equipment.

[4] Emission factors obtained from OFFROAD2021 emissions output for Calendar Years 2032 and 2050, Yard Goats and Forklifts in San Joaquin Valley. Emission factors are not available after calendar year 2050. Therefore, calendar year 2050 emission factors were used to represent emission factors for calendar year 2057.

[5] Emissions estimated using OFFROAD2021 emission factors and annual hours of use for each equipment.

Abbreviations:

CO_2 - carbon dioxide
hr(s) - hour(s)
MSF - million square feet
sqft - square feet
tsf - thousand square feet
yr - year

Constants:

3.6	yard trucks/MSF[1]
1,430	hrs/yr[1]
0.12	forklifts/tsf[2]
2920	hrs/yr[2]
1,000	sqft/tsf
1,000,000	sqft/MSF

Table 4-11. Wastewater Treatment Plant Emergency Diesel Generator Greenhouse Gas Emissions
Pacific Gateway
San Joaquin County, California

Equipment Name	Generator Parameters			Annual Emissions, EPA GHG Inventory (lb/year)			
	Hours per year[1]	Diesel Consumption Rate (gal/hr)[2]	Annual Diesel Throughput (gal)	CO_2	CH_4	N_2O	CO_2e
Emergency Diesel Generator	200	39.9	7,973	179,452	7.2	1.4	180,051

EPA GHG Emission Factors

Emission Factors for Greenhouse Gas Inventories	Provided EF (kg/gal)[3]	Fuel EF (lb/gal)
CO_2	10.21	22.51
CH_4	4.10E-04	9.04E-04
N_2O	8.00E-05	1.76E-04

Conversion Factors:

5.11E-05	Mgal/bhp-hr, liquid fuel consumption factor[4]
0.001	Mgal/gal
0.986	hp/bhp
0.4536	kg/lb
1,000	g/kg
1	GWP of CO_2[5]
25	GWP of CH_4[5]
298	GWP of N_2O[5]

Notes:

[1]Emergency generator hours per year taken from SJVAPCD Rule 4701 Section 3.22, which states that "Any internal combustion engine used exclusively for non-utility electric power generation or any other emergency engine, approved by the APCO, and limited by permit condition to operate no more than 200 hours per calendar year for non-emergency purposes and not used in conjunction with any voluntary utility demand reduction program." Available at: https://ww2.valleyair.org/media/1danj2d0/rule-4701.pdf. Accessed: January 2025.

[2]Expected diesel consumption rate taken as an average of similar units.

[3]Emission factors represent "Distillate Fuel Oil No. 2" from Table 1 of the EPA Emission Factors for Greenhouse Gas Inventories. Available at: https://www.epa.gov/system/files/documents/2023-03/ghg_emission_factors_hub.pdf. Accessed: January 2025.

[4]Liquid fuel consumption factor from Table 1 in AQMD Guidelines for Calculating Emissions form Internal Combustion Engines. Available at: https://www.aqmd.gov/docs/default-source/planning/annual-emission-reporting/guidelines-for-calculating-emissions-from-internal-combustion-engines.pdf?sfvrsn=6. Accessed: January 2025.

[5]GWP values are from Table 11 of the EPA Emission Factors for Greenhouse Gas Inventories. Available at: https://www.epa.gov/system/files/documents/2023-03/ghg_emission_factors_hub.pdf. Accessed: January 2025.

Abbreviations:

APCO - Air Pollution Control Officer
bhp - brake horsepower
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
EF - emission factor
EPA - Environmental Protection Agency
gal - gallon
GHG - greenhouse gas
GWP - global warming potential
hp - horsepower
hr - hour
kg - kilogram
lb - pound
Mgal - 1,000 gallons
N_2O - nitrous oxide
SJVAPCD - San Joaquin Valley Air Pollution Control District

Table 4-12. Forklift Electricity Consumption
Pacific Gateway
San Joaquin County, California

Forklift Charging Parameters		Unit
Solar Forklift Mitigation Measure[1]	40,000	sqft per forklift charging station
Average Typical Electric Forklift Input Demand[2]	18.8	kW

Building Parameters	Initial Phase	Buildout	Unit
Warehouse Building Area[3]	3,962,000	24,675,000	sqft
Number of Forklift Chargers	100	617	Chargers
Daily Usage per Charger	24	24	hr/day
Energy Consumption Associated with Solar Powered Forklift Charging			
Reductions	**Initial Phase**	**Buildout**	**Unit**
Energy Usage	16,468,800	101,612,496	kWh/yr
	16,469	101,612	MWh/yr
Calculated GHG Emission Reduction from Solar Powered Forklift Charging[4]			
Annual GHG Emissions Reduction	137	0	MT CO2/yr

Notes

[1] To represent the project mitigation measure regarding solar energy for forklift charging, the following assumptions were made. GHG emission reductions associated with solar-powered electric forklift chargers are calculated above.

[2] Maximum Typical Energy Demand and Usage is based on Electric Power Research Institute Document which was published by CARB. Available at: https://ww2.arb.ca.gov/sites/default/files/classic/fuels/lcfs/electricity/epri_2015.pdf. Accessed January 2025.

[3] Warehouse Building Area was based on Project-specific land use information.

[4] Annual GHG emissions reductions were calculated based on the forklift charger electricity consumption, and the carbon intensity as shown in Table 4-9.

Abbreviations:

CO2 - carbon dioxide
kW - kilowatt
kWh - kilowatt-hour
sqft - square foot
hr - hour
lb - pound
MWh - megawatt-hour

Conversion Factors:

1000 kWh/MWh

Table 4-13. Operational Refrigerant Assumptions
Pacific Gateway
San Joaquin County, California

Development Area	CalEEMod® Land Use Subtype	Refrigerant Type[1]	Quantity Installed per Land Use Area (kg/KSF)[1,2]
Initial Phase	Industrial Park	R-404a	0.375
Pacific Gateway East			
Pacific Gateway Central			
Pacific Gateway West			
University Center			
Gateway Center			

Constants:

7.500 kg/KSF[1]

5% of Industrial Park area will be used for Cold Storage[2]

Notes:

[1] Refrigerant Type and Quantity Installed per Land Use Area are based on Table G-38, Appendix G in the CalEEMod2022 User Guide for the Land Use Subtype - Refrigerated Warehouse - No Rail, and Refrigeration Equipment - Cold Storage. Available at: https://caleemod.com/documents/user-guide/08_Appendix%20G_v2022.1.1.3.xlsx. Accessed: January 2025.

[2] The project assumes that 5% of the area of the Industrial Park will be used for Cold Storage.

Abbreviations:
kg - kilogram
KSF - thousand square feet

Table 4-14. Unmitigated Summary of GHG Emissions
Pacific Gateway
San Joaquin County, California

Emissions Category[1]	GHG Emissions[2] (MT CO_2e/yr)	
	Initial Phase	**Buildout**
Area Sources	60	1,401
Energy Usage	7,122	42,380
Mobile	58,002	309,482
TRU[3]	851	5,353
Offroad Equipment[4]	15,929	97,042
Wastewater Facility[5]	82	82
Refrigerants	171	1,419
Water	1,310	7,947
Waste Disposed	1,593	10,435
Operational Sub-Total	***85,119***	***475,540***
Construction Amortized[6]	796	7,556
Vegetation Amortized[6]	22	158
Total[7]	**85,938**	**483,254**

Notes:

[1] One-time emissions (i.e., construction) and operational emissions were calculated using CalEEMod®. See Appendix A for details

[2] Emissions are presented as CO_2e, which include CO_2, CH_4, and N_2O emissions, weighted by their

[3] TRU emissions were estimated using OFFROAD2021 emission factors, see Tables 4-7 and Table 4-8 for detailed calculations.

[4] Offroad equipment emissions include emissions from on-site yard trucks and forklifts, see Table 4-10 for detailed calculations.

[5] Wastewater facility emissions include emissions from an on-site emergency diesel generator, see Table 4-11 for detailed calculations.

[6] One-time emissions from construction and vegetation were amortized over a 30-year period.

[7] Sum of annualized one-time emissions and operational emissions.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
EMFAC - EMission FACtors model
GHG - greenhouse gases
MT - metric tonnes
MT - metric tons
N_2O - nitrous oxide
TRU - Transportation Refrigeration unit
yr - year

Conversion Factor
1000000 grams/MT

Table 6-1. Mitigated Summary of GHG Emissions
Pacific Gateway
San Joaquin County, California

Emissions Category[1]	GHG Emissions[2] (MT CO_2e/yr)	
	Initial Phase	Buildout
Area Sources	60	1,401
Zero-Emission Landscaping Equipment[3]	*-60*	*-412*
Energy Usage[4]	7,259	42,380
Solar PV[4]	-640	0
Mobile	58,002	309,482
TRU[5]	851	5,353
Offroad Equipment[6]	15,929	97,042
Zero-Emission Operational Offroad Equipment[6]	*-15,275*	*-90,400*
Wastewater Facility[7]	82	82
Refrigerants	171	1,419
Water	1,310	7,947
Waste Disposed	1,593	10,435
Operational Sub-Total	***69,281***	***384,729***
Construction Amortized[8]	796	7,556
Vegetation Amortized[8]	22	158
Total[9]	**70,099**	**392,443**

Notes:

[1] One-time emissions (i.e., construction) and operational emissions were calculated using CalEEMod®. See Appendix A for details.

[2] Emissions are presented as CO_2e, which include CO_2, CH_4, and N_2O emissions, weighted by their respective global warming potentials.

[3] GHG emission reductions associated with a zero-emission landscaping equipment mitigation measure were assumed to be equivalent to the total landscaping CO2e emissions estimated in CalEEMod®. See Appendix A for details.

[4] GHG emission reductions associated with the solar PV installation mitigation measure were estimated based on the Title 24-related electricity consumption at industrial land uses from CalEEMod®, and forklift charger usage as estimated in Table 4-12. Emissions associated with forklift charger usage was added to the total initial phase and buildout energy usage. The portion of GHG reductions associated with base building electricity use was assumed to be equivalent to the default Title 24-related electricity consumption calculated by CalEEMod®.

[5] TRU emissions were calculated as shown in Table 4-7 and Table 4-8 for detailed calculations.

[6] Offroad equipment emissions include emissions from on-site yard trucks and forklifts. GHG emission reductions associated with the use of zero-emission operational offroad equipment were estimated in Table 4-10.

[7] Wastewater facility emissions include emissions from an on-site emergency diesel generator, see Table 4-11 for detailed calculations.

[8] One-time emissions from construction and vegetation were amortized over a 30-year period.

[9] Sum of annualized one-time emissions and operational emissions.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CH_4 - methane
CO_2 - carbon dioxide
CO_2e - carbon dioxide equivalents
EMFAC - EMission FACtors model
GHG - greenhouse gases
MT - metric tonnes
N_2O - nitrous oxide
PV - photovoltaic
TRU - Transportation Refrigeration unit
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
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
% 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
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
% 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
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
% 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

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
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
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
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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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
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	0.02	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

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

3.2. 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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	0.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	137	137	0.01	< 0.005	—	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
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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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
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	0.02	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
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

3.3. 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.31	1.90	14.2	0.02	0.07	—	0.07	0.07	—	0.07	—	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	0.06	0.06	0.35	2.58	< 0.005	0.01	—	0.01	0.01	—	0.01	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 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

3.5. 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	2.96	3.90	0.01	0.11	—	0.11	0.10	—	0.10	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.54	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	—	119	119	< 0.005	< 0.005	—	120
Onsite truck	0.00	0.00	0.00	0.00	0.00	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
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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
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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	716	716	0.02	0.03	1.14	726
Vendor	0.05	0.03	1.30	0.42	0.01	0.01	0.28	0.30	0.01	0.08	0.09	—	933	933	0.02	0.14	0.99	976
Hauling	0.00	0.00	0.00	0.00	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.17	0.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	119	119	< 0.005	< 0.005	—	120
Onsite truck	0.00	0.00	0.00	0.00	0.00	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
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	716	716	0.02	0.03	1.14	726
Vendor	0.05	0.03	1.30	0.42	0.01	0.01	0.28	0.30	0.01	0.08	0.09	—	933	933	0.02	0.14	0.99	976
Hauling	0.00	0.00	0.00	0.00	0.00	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
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	—	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	5.14	5.41	0.27	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
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	—	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	5.14	5.41	0.27	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
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	—	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	4.39	4.63	0.23	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.92	0.68	9.73	0.00	0.00	2.24	2.24	0.00	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	0.80	0.84	0.04	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

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
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
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
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
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	—	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	5.14	5.41	0.27	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
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	—	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	5.14	5.41	0.27	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
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	—	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	4.39	4.63	0.23	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.94	0.92	0.68	9.73	0.00	0.00	2.24	2.24	0.00	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	0.80	0.84	0.04	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

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
Daily, Winter (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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.85	7.67	11.1	0.02	0.26	—	0.26	0.24	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.40	2.03	< 0.005	0.05	—	0.05	0.04	—	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
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	—	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
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	0.85	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

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	—	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
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	0.85	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

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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	7.36	11.1	0.02	0.24	—	0.24	0.22	—	0.22	—	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	1.34	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	5.85	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

3.12. 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	—	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	5.85	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	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	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	5.41	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.95	2.80	43.2	0.00	0.00	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	4.63	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.81	0.72	0.51	7.89	0.00	0.00	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	0.84	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

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	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	5.41	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.46	3.95	2.80	43.2	0.00	0.00	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	4.63	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.81	0.72	0.51	7.89	0.00	0.00	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	0.84	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

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-Roa 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.30	0.25	2.21	3.50	0.01	0.07	—	0.07	0.06	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.05	0.05	0.40	0.64	< 0.005	0.01	—	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	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	3.38	3.38	—	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	1.42	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	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	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	1.42	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	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	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	0.16	2.35	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	0.25	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

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	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.74	< 0.005	< 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	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	3.38	3.38	—	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	1.42	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	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	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	1.42	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	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	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	0.16	2.35	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	0.25	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

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
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	—	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	0.04	0.04	0.00	0.01	0.01	—	32.8	32.8	< 0.005	< 0.005	0.03	33.0
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.44	5.44	< 0.005	< 0.005	0.01	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	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

3.18. 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
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	0.00	0.13	0.13	0.00	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	0.04	0.04	0.00	0.01	0.01	—	32.8	32.8	< 0.005	< 0.005	0.03	33.0
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.44	5.44	< 0.005	< 0.005	0.01	5.46
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	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

3.19. Architectural Coating (2031) - Unmitigated

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

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	197	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	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa 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	197	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	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	< 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	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 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	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	0.94	0.53	11.7	0.00	0.00	2.88	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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.82	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.12	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	< 0.005	—	38.0	38.0	< 0.005	< 0.005	—	38.2
Architectural Coatings	20.6	20.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.30	6.30	< 0.005	< 0.005	—	6.32
Architectural Coatings	3.75	3.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.00	2.88	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.82	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Tractors/Loaders/Backhoes	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/Backhoes	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/Backhoes	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

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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
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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8. User Changes to Default Data

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
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
% 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
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
% 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

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	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	—	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	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	—	0.38	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	—	27.3	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	4.52	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
Hauling	0.00	0.00	0.00	0.00	0.00	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.10	0.53	5.82	0.01	0.02	—	0.02	0.02	—	0.02	—	1,088	1,088	0.04	0.01	—	1,092
Dust From Material Movement	—	—	—	—	—	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.10	1.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	180	180	0.01	< 0.005	—	181
Dust From Material Movement	—	—	—	—	—	—	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	—	27.3	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	4.52	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	1.63	1.37	10.4	13.8	0.03	0.42	—	0.42	0.39	—	0.39	—	3,524	3,524	0.14	0.03	—	3,536
Dust From Material Movement	—	—	—	—	—	—	4.92	4.92	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	1.89	2.51	0.01	0.08	—	0.08	0.07	—	0.07	—	583	583	0.02	< 0.005	—	585
Dust From Material Movement	—	—	—	—	—	—	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
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	0.03	0.03	0.02	0.28	0.00	0.00	0.09	0.09	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.39	2.50	18.9	0.03	0.08	—	0.08	0.08	—	0.08	—	3,524	3,524	0.14	0.03	—	3,536
Dust From Material Movement	—	—	—	—	—	—	4.92	4.92	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.07	0.46	3.45	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	—	0.36	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

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	0.03	0.03	0.02	0.28	0.00	0.00	0.09	0.09	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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)

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	1.07	0.90	7.87	12.8	0.02	0.22	—	0.22	0.21	—	0.21	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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	0.02	0.02	0.17	0.28	< 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
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	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	9.20	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.89	0.87	0.57	9.43	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.10	1.72	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	0.20	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

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-Roa Equipment	0.01	0.01	0.07	0.33	< 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
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	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	9.20	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.87	0.57	9.43	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.10	1.72	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	0.20	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

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-Roa 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-Roa d Equipm ent	1.05	0.88	7.67	12.8	0.02	0.20	—	0.20	0.19	—	0.19	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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-Roa d Equipm ent	0.90	0.75	6.57	11.0	0.02	0.17	—	0.17	0.16	—	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	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.16	0.14	1.20	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	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	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	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	6.96	4.88	72.6	0.00	0.00	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	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
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

3.8. 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-Roa 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	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	7.62	7.49	3.76	93.1	0.00	0.00	25.3	25.3	0.00	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	0.24	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.16	6.96	4.88	72.6	0.00	0.00	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	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
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	—	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	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	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	8.96	9.20	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	8.96	9.20	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	7.65	7.85	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	1.40	1.43	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

3.10. 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 Equipm	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	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	8.96	9.20	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	8.96	9.20	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	7.65	7.85	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	1.40	1.43	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

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	—	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	0.16	0.13	1.15	1.98	< 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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.02	6.96	3.69	85.3	0.00	0.00	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	0.24	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	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.56	3.28	58.8	0.00	0.00	21.6	21.6	0.00	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	7.85	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.02	0.60	10.7	0.00	0.00	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	1.43	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

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	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	7.02	6.96	3.69	85.3	0.00	0.00	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	0.24	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	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.74	5.56	3.28	58.8	0.00	0.00	21.6	21.6	0.00	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	7.85	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.02	0.60	10.7	0.00	0.00	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	1.43	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

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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.56	6.43	3.89	63.7	0.00	0.00	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	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
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	—	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	6.82	6.69	3.63	81.5	0.00	0.00	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.56	6.43	3.89	63.7	0.00	0.00	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	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
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

3.15. 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	—	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	6.49	6.36	2.84	79.4	0.00	0.00	25.3	25.3	0.00	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.29	6.16	3.82	61.3	0.00	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.34	5.22	3.16	54.1	0.00	0.00	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	7.85	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.58	9.88	0.00	0.00	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	1.43	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

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 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	0.07	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	6.49	6.36	2.84	79.4	0.00	0.00	25.3	25.3	0.00	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	6.29	6.16	3.82	61.3	0.00	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.34	5.22	3.16	54.1	0.00	0.00	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	7.85	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.97	0.95	0.58	9.88	0.00	0.00	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	1.43	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

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	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 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	6.29	6.16	2.77	77.3	0.00	0.00	25.3	25.3	0.00	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	9.20	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	0.00	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	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
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

3.18. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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
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	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	9.20	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	0.00	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	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
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-Roa Equipment	0.01	0.01	0.09	0.17	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.83	4.91	3.76	57.6	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	2.48	2.71	—	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
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	0.69	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	0.13	< 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

3.20. 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	—	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	0.03	0.03	0.22	1.12	< 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	0.04	0.20	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	5.83	4.91	3.76	57.6	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	2.48	2.71	—	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
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	0.69	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	0.13	< 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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	2.01	3.69	0.01	0.04	—	0.04	0.04	—	0.04	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.37	0.67	< 0.005	0.01	—	0.01	0.01	—	0.01	—	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.38	0.00	0.00	0.13	0.13	0.00	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	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	0.03	0.02	0.02	0.29	0.00	0.00	0.13	0.13	0.00	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	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	0.11	0.00	0.00	0.05	0.05	0.00	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	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	0.02	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.72	< 0.005	< 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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.01	0.38	0.00	0.00	0.13	0.13	0.00	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	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	0.03	0.02	0.02	0.29	0.00	0.00	0.13	0.13	0.00	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	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	0.11	0.00	0.00	0.05	0.05	0.00	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	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	0.02	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	50.5	50.5	< 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
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	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.19	1.01	0.55	15.1	0.00	0.00	5.05	5.05	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	5.05	5.05	0.00	1.18	1.18	—	4,129	4,129	0.07	0.04	0.08	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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	1.90	0.00	0.45	0.45	—	1,600	1,600	0.02	0.02	0.49	1,605
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	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	0.08	0.07	0.05	0.82	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	265	265	< 0.005	< 0.005	0.08	266
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

3.24. 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 Equipm	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.41	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50.5	50.5	< 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	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.19	1.01	0.55	15.1	0.00	0.00	5.05	5.05	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	5.05	5.05	0.00	1.18	1.18	—	4,129	4,129	0.07	0.04	0.08	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	1.90	0.00	0.45	0.45	—	1,600	1,600	0.02	0.02	0.49	1,605
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	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	0.08	0.07	0.05	0.82	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	265	265	< 0.005	< 0.005	0.08	266
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2032	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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	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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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
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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8. User Changes to Default Data

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
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
% 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
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
% 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-Roa Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.22	6.22	< 0.005	< 0.005	—	6.24
Demoliti on	—	—	—	—	—	—	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	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	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	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	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	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	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	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	0.19	< 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	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	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, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	0.58	4.90	18.2	0.03	0.07	—	0.07	0.07	—	0.07	—	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	0.01	0.01	0.05	0.20	< 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	0.01	0.04	< 0.005	< 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	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	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	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	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	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	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	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	0.19	< 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	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	7.86	< 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
Daily, Winter (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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.25	5.23	0.01	0.16	—	0.16	0.15	—	0.15	—	1,364	1,364	0.06	0.01	—	1,369
Dust From Material Movement	—	—	—	—	—	—	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	0.12	0.10	0.78	0.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	226	226	0.01	< 0.005	—	227
Dust From Material Movement	—	—	—	—	—	—	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	0.04	0.04	0.02	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	134	134	< 0.005	< 0.005	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.01	0.01	—	31.9	31.9	< 0.005	< 0.005	0.01	32.0
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.28	5.28	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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 (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	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	0.13	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	—	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	—	0.47	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	0.04	0.04	0.02	0.45	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	134	134	< 0.005	< 0.005	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.01	0.01	—	31.9	31.9	< 0.005	< 0.005	0.01	32.0
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.28	5.28	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.54	2.48	0.01	0.06	—	0.06	0.05	—	0.05	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	13.8	13.8	< 0.005	< 0.005	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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 (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-Roa 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-Roa d Equipm ent	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	13.8	13.8	< 0.005	< 0.005	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.20	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.6	84.6	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.38	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	137	137	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 0.005	< 0.005	—	10.9	10.9	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.81

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 (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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.50	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	84.6	84.6	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.38	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	137	137	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 0.005	< 0.005	—	10.9	10.9	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	1.80	1.80	< 0.005	< 0.005	< 0.005	1.81
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

3.9. 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	—	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	8.58	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	—	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	—	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	8.58	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	—	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	—	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

3.11. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	5.39	4.57	2.59	70.2	0.00	0.00	24.2	24.2	0.00	5.67	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	2.60	—	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	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	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	2.60	—	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	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	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	5.39	4.57	2.59	70.2	0.00	0.00	24.2	24.2	0.00	5.67	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	2.60	—	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	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	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	2.60	—	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	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

3.13. 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	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	8.58	8.80	0.23	2.37	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	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	8.58	8.80	0.23	2.37	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	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	7.33	7.52	0.19	2.02	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	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	1.34	1.37	0.04	0.37	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	—	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	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	8.58	8.80	0.23	2.37	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	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	8.58	8.80	0.23	2.37	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	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	7.33	7.52	0.19	2.02	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	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	1.34	1.37	0.04	0.37	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

3.15. 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	—	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	5.07	4.19	2.59	68.2	0.00	0.00	24.2	24.2	0.00	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	0.23	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	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	8.58	8.80	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	7.33	7.52	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	1.34	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

3.16. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	5.07	4.19	2.59	68.2	0.00	0.00	24.2	24.2	0.00	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	0.23	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	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	8.58	8.80	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	7.33	7.52	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	1.34	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	—	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 Equipment	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	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	8.58	8.80	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	8.58	8.80	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	7.33	7.52	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	1.34	1.37	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

3.18. 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 Equipm	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	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	8.58	8.80	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	8.58	8.80	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	7.33	7.52	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	1.34	1.37	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

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	—	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	0.93	0.78	6.48	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	0.80	0.67	5.57	10.5	0.02	0.11	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 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	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	8.58	8.80	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	7.35	7.54	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	1.34	1.38	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

3.20. 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	8.58	8.80	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	7.35	7.54	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	1.34	1.38	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-Roa 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-Roa d Equipm ent	0.79	0.66	5.50	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-Roa d Equipm ent	0.14	0.12	1.00	1.90	< 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	4.69	3.87	2.53	66.2	0.00	0.00	24.2	24.2	0.00	5.67	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	2.60	—	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	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	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	2.60	—	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	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	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	2.22	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.59	0.40	8.19	0.00	0.00	3.77	3.77	0.00	0.88	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	0.40	—	2,833	2,833	0.05	0.44	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	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	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	4.69	3.87	2.53	66.2	0.00	0.00	24.2	24.2	0.00	5.67	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	2.60	—	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	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	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	2.60	—	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	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	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	2.22	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.72	0.59	0.40	8.19	0.00	0.00	3.77	3.77	0.00	0.88	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	0.40	—	2,833	2,833	0.05	0.44	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	0.00	0.00

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	—	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	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	—	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	8.58	8.80	0.23	2.37	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
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	—	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	8.58	8.80	0.23	2.37	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
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	—	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	6.32	6.49	0.17	1.75	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.49	0.35	7.05	0.00	0.00	3.25	3.25	0.00	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	1.15	1.18	0.03	0.32	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

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

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	0.34	0.31	2.17	11.0	0.02	0.06	—	0.06	0.05	—	0.05	—	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 Equipment	0.06	0.06	0.40	2.01	< 0.005	0.01	—	0.01	0.01	—	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	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	—	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	8.58	8.80	0.23	2.37	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
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	—	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	8.58	8.80	0.23	2.37	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
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	—	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	6.32	6.49	0.17	1.75	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.49	0.35	7.05	0.00	0.00	3.25	3.25	0.00	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	1.15	1.18	0.03	0.32	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

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	0.13	0.13	0.00	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	0.00	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	0.01	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	0.03	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	0.00	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	0.01	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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-Roa Equipment	0.03	0.03	0.32	0.63	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.7	88.7	< 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	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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

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	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	0.27	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	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	0.09	0.09	0.74	3.71	< 0.005	0.01	—	0.01	0.01	—	0.01	—	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	0.02	0.02	0.13	0.68	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.7	88.7	< 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	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	195	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	195	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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
Architectural Coatings	92.5	92.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.5
Architectural Coatings	16.9	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.91	0.75	0.51	13.0	0.00	0.00	4.84	4.84	0.00	1.13	1.13	—	4,234	4,234	0.04	0.03	0.61	4,244
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	0.75	0.74	0.54	9.95	0.00	0.00	4.84	4.84	0.00	1.13	1.13	—	3,832	3,832	0.05	0.04	0.02	3,845
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	0.35	0.34	0.25	4.87	0.00	0.00	2.28	2.28	0.00	0.54	0.54	—	1,862	1,862	0.02	0.02	0.12	1,868
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	0.06	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

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

Architect Coatings	31.6	31.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.5
Architectural Coatings	5.76	5.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.91	0.75	0.51	13.0	0.00	0.00	4.84	4.84	0.00	1.13	1.13	—	4,234	4,234	0.04	0.03	0.61	4,244
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	0.75	0.74	0.54	9.95	0.00	0.00	4.84	4.84	0.00	1.13	1.13	—	3,832	3,832	0.05	0.04	0.02	3,845
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	0.35	0.34	0.25	4.87	0.00	0.00	2.28	2.28	0.00	0.54	0.54	—	1,862	1,862	0.02	0.02	0.12	1,868
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	0.06	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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	—	—	—	—

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

5.3.2. 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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit

Temperature and Extreme Heat	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
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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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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	3.03	4.49	0.01	0.09	—	0.09	0.08	—	0.08	—	1,364	1,364	0.06	0.01	—	1,369
Dust From Material Movement	—	—	—	—	—	—	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	0.10	0.09	0.55	0.82	< 0.005	0.02	—	0.02	0.02	—	0.02	—	226	226	0.01	< 0.005	—	227
Dust From Material Movement	—	—	—	—	—	—	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	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.00	0.03	0.03	—	116	116	< 0.005	< 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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	30.7	30.7	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.09	5.09	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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 Equipm	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	0.13	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	—	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	—	0.47	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	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.15	0.00	0.03	0.03	—	116	116	< 0.005	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	30.7	30.7	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.09	5.09	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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
Daily, Winter (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
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
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

Dust From Material Movement	—	—	—	—	—	—	1.01	1.01	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.02	0.45	0.00	0.00	0.17	0.17	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.17	0.17	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.10	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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 (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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.50	3.88	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	—	0.40	0.40	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.02	0.45	0.00	0.00	0.17	0.17	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.17	0.17	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.10	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	74.4	74.4	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	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	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	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	0.05	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
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	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	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
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
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
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
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	7.72	7.92	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	7.72	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

3.8. 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
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	0.37	0.33	2.32	11.8	0.02	0.06	—	0.06	0.06	—	0.06	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.42	2.15	< 0.005	0.01	—	0.01	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
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	7.72	7.92	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	7.72	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	—	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	5.34	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.05	3.31	2.22	58.6	0.00	0.00	21.8	21.8	0.00	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	0.20	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.26	2.44	44.6	0.00	0.00	21.8	21.8	0.00	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	0.20	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	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.79	2.74	2.00	39.5	0.00	0.00	18.6	18.6	0.00	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	0.17	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.50	0.36	7.21	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	1.20	1.23	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

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	—	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	4.05	3.31	2.22	58.6	0.00	0.00	21.8	21.8	0.00	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	0.20	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.31	3.26	2.44	44.6	0.00	0.00	21.8	21.8	0.00	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	0.20	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.79	2.74	2.00	39.5	0.00	0.00	18.6	18.6	0.00	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	0.17	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.51	0.50	0.36	7.21	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	1.20	1.23	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

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
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

3.12. 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)

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	—	—	—	—	—	—	—

3.14. 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	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

3.15. Building Construction (2052) - 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	—	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)

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	—	—	—	—	—	—	17.5	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	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

3.18. 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	—	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	—	—	—	—	—	—	—

3.19. 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	—	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)

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	—	—	—	—	—	—	15.0	15.0	—	3.74	3.74	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	4.47	4.47	—	1.12	1.12	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—
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	—	—	—	—	—	—	15.0	15.0	—	3.74	3.74	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	4.47	4.47	—	1.12	1.12	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

3.23. 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)

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-Roa 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-Roa d Equipm ent	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	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	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	2.40	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	—	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	—	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	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	2.40	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

3.25. 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	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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)

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	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	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	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

3.28. 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	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paving	1.77	1.77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	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	—	—	—	—	—	—	—
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	—	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	0.06	0.05	0.59	1.17	< 0.005	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.21	< 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
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	—	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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.23	< 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
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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.42	4.88	9.68	0.01	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.71	3.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.31	0.62	< 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	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	—	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	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	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	35.7	35.7	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.91	5.91	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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)

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	0.26	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
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	0.09	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	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	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	—	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	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	0.02	0.02	0.01	0.26	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	35.7	35.7	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	5.91	5.91	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	175	175	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	82.9	82.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	15.1	15.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	—	2.04	2.04	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	—	2.04	2.04	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	28.1	28.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.12	5.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	—	2.04	2.04	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	—	—	—	—	—	—	8.16	8.16	—	2.04	2.04	—	—	—	—	—	—	—
Vendor	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Hauling	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—

3.35. 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	—	< 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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 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	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	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	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	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

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

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
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
Architectural Coatings	28.1	28.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.5	10.5	< 0.005	< 0.005	—	10.5
Architectural Coatings	5.12	5.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	1.57	1.28	0.89	23.4	0.00	0.00	8.71	8.71	0.00	2.04	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2047	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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

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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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	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

5.4. 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

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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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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

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	< 0.005	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	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	—	354
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	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	0.18	0.00	0.00	0.06	0.06	0.00	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	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.85	8.85	< 0.005	< 0.005	0.01	8.89
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

3.2. 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.04	11.4	0.02	0.04	—	0.04	0.04	—	0.04	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.19	2.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	353	353	0.01	< 0.005	—	354
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	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	0.18	0.00	0.00	0.06	0.06	0.00	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	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.85	8.85	< 0.005	< 0.005	0.01	8.89
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

3.3. 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
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

3.4. 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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.34	2.13	16.1	0.03	0.07	—	0.07	0.06	—	0.06	—	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	0.06	0.06	0.39	2.94	0.01	0.01	—	0.01	0.01	—	0.01	—	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
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)

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	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	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	0.03	0.03	0.02	0.28	0.00	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	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	0.05	0.00	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	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

3.6. 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.47	3.56	0.01	0.01	—	0.01	0.01	—	0.01	—	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	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	0.03	0.03	0.02	0.28	0.00	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	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	0.05	0.00	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	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

3.7. 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-Roa 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	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	0.14	0.13	0.91	4.55	0.01	0.02	—	0.02	0.02	—	0.02	—	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	0.03	0.02	0.17	0.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	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

3.9. 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 Equipment	0.88	0.74	6.45	10.9	0.02	0.16	—	0.16	0.15	—	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	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	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	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	0.29	—	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
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	—	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	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	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	0.29	—	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
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

3.11. 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	—	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	0.16	0.13	1.15	1.98	< 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	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	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	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
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	0.08	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	0.06	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
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	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	0.81	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
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	< 0.005	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
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	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	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
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	0.08	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	0.06	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
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	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	0.81	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
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	< 0.005	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

3.13. 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	—	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	—	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
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	—	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	—	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
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	—	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	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.09	0.00	0.00	0.42	0.42	0.00	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	—	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

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	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	—	2,060	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	0.72	0.71	0.38	8.65	0.00	0.00	2.68	2.68	0.00	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	—	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

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	—	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	—	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
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	—	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	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.06	1.09	0.00	0.00	0.42	0.42	0.00	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	—	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

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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	0.00	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	0.03	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.41	6.50	0.00	0.00	2.68	2.68	0.00	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	0.03	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	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	—	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	0.69	0.67	0.30	8.42	0.00	0.00	2.68	2.68	0.00	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	0.03	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.65	0.41	6.50	0.00	0.00	2.68	2.68	0.00	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	0.03	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	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

3.17. 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	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	0.67	0.65	0.29	8.21	0.00	0.00	2.68	2.68	0.00	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	0.99	0.03	0.27	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
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	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	0.99	0.03	0.27	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
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	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	0.84	0.02	0.23	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
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	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	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

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	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
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	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	0.99	0.03	0.27	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
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	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	0.99	0.03	0.27	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
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	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	0.84	0.02	0.23	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
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	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	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

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	0.99	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	0.00	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	0.03	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	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

3.20. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	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	0.99	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	0.00	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	0.03	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	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	—	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	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	0.96	0.99	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	0.96	0.99	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	0.82	0.85	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

3.22. 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	—	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	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	0.96	0.99	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	0.96	0.99	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	0.82	0.85	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

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

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	—	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	0.58	0.49	0.29	7.67	0.00	0.00	2.68	2.68	0.00	0.63	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	0.29	—	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	0.00

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

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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	0.00	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	0.03	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.31	5.71	0.00	0.00	2.68	2.68	0.00	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	0.03	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	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	—	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	0.56	0.46	0.29	7.56	0.00	0.00	2.68	2.68	0.00	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	0.03	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.46	0.31	5.71	0.00	0.00	2.68	2.68	0.00	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	0.03	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	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

3.27. 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 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	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	0.96	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
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	0.96	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
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	0.82	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
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

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	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	0.96	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
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	0.96	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
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	0.82	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
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

3.29. 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	—	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	0.93	0.78	6.48	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	0.80	0.67	5.57	10.5	0.02	0.11	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 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	0.53	0.44	0.28	7.35	0.00	0.00	2.68	2.68	0.00	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	0.03	0.27	0.29	—	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	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.43	0.30	5.57	0.00	0.00	2.68	2.68	0.00	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	0.03	0.27	0.29	—	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	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

3.30. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	0.53	0.44	0.28	7.35	0.00	0.00	2.68	2.68	0.00	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	0.03	0.27	0.29	—	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.52	0.43	0.30	5.57	0.00	0.00	2.68	2.68	0.00	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	0.03	0.27	0.29	—	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	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-Roa Equipment	0.03	0.03	0.23	0.43	< 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
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	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	0.99	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.06	1.12	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	< 0.005	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.09	0.09	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	< 0.005	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

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	—	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	0.09	0.08	0.56	2.87	< 0.005	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.52	< 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
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	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	0.99	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.10	0.08	0.06	1.12	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	< 0.005	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.09	0.09	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	< 0.005	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

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	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.61	1.18	< 0.005	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
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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.08	0.08	0.00	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

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	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
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
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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.08	0.08	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	< 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
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	—	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	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 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	0.00	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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 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	0.00	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

3.36. 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	—	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	0.02	0.02	0.16	0.79	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.14	< 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
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	—	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	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 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	0.00	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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 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	0.00	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

3.37. 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
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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.55	0.81	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	98.8	98.8	< 0.005	< 0.005	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.4	16.4	< 0.005	< 0.005	—	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

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.08	0.06	1.45	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.54	0.54	0.00	0.13	0.13	—	426	426	0.01	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.40	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.07	0.00	0.02	0.02	—	53.4	53.4	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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)

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

Off-Road	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	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	—	< 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	—	< 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	—	< 0.005	—	16.4	16.4	< 0.005	< 0.005	—	16.4

Architect Coatings	1.10	1.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.54	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.54	0.54	0.00	0.13	0.13	—	426	426	0.01	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.40	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.07	0.00	0.02	0.02	—	53.4	53.4	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2032	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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/Backhoes	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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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
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	< 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.06	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	< 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	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	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	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	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	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	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	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.46	< 0.005	0.02	—	0.02	0.02	—	0.02	—	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	—	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
Hauling	0.02	0.01	0.65	0.16	< 0.005	0.01	0.16	0.17	0.01	0.04	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	—	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
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	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	—	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
Hauling	< 0.005	< 0.005	0.02	< 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

3.2. 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	—	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
Hauling	0.02	0.01	0.65	0.16	< 0.005	0.01	0.16	0.17	0.01	0.04	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	—	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
Hauling	< 0.005	< 0.005	0.10	0.02	< 0.005	< 0.005	0.02	0.03	< 0.005	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	—	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
Hauling	< 0.005	< 0.005	0.02	< 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	—	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	1.45	1.22	10.1	11.6	0.02	0.42	—	0.42	0.38	—	0.38	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.22	1.84	2.12	< 0.005	0.08	—	0.08	0.07	—	0.07	—	396	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.21	2.34	< 0.005	0.01	—	0.01	0.01	—	0.01	—	396	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

3.5. 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-Roa 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	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	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	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.01	0.01	0.01	0.13	0.00	0.00	0.04	0.04	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.19	1.20	9.05	0.02	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.22	1.65	< 0.005	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
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	0.01	0.01	0.01	0.13	0.00	0.00	0.04	0.04	0.00	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	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
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	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
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
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
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

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)

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	0.76	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	0.65	0.63	4.01	30.3	0.05	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	0.73	5.53	0.01	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
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

3.9. 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

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	144	144	< 0.005	< 0.005	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.09
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	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

3.10. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.73	4.66	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	0.01	0.01	0.07	0.50	< 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	—	0.05	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	< 0.005	< 0.005	0.01	0.09	< 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	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	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	—	144	144	< 0.005	< 0.005	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	2.08	2.08	< 0.005	< 0.005	< 0.005	2.09
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.34	0.34	< 0.005	< 0.005	< 0.005	0.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	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

3.11. 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
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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	38.0	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.94	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	0.55	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

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
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
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
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
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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	38.0	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	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.94	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	0.55	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

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.73	6.29	10.9	0.02	0.15	—	0.15	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.15	1.98	< 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	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	—	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	—	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
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	—	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	—	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
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	—	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	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.64	0.38	6.81	0.00	0.00	2.50	2.50	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
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	4.46	4.42	2.34	54.1	0.00	0.00	16.0	16.0	0.00	3.76	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	—	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
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	—	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	—	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
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	—	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	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.66	0.64	0.38	6.81	0.00	0.00	2.50	2.50	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

3.15. 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.33	4.25	2.30	51.7	0.00	0.00	16.0	16.0	0.00	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	3.60	3.70	0.09	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.16	4.08	2.47	40.4	0.00	0.00	16.0	16.0	0.00	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	3.60	3.70	0.09	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	35.7	0.00	0.00	13.7	13.7	0.00	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	3.09	3.17	0.08	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.51	0.00	0.00	2.51	2.51	0.00	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	0.56	0.58	0.01	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	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	—	0.07	—	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	—	2,060	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	4.33	4.25	2.30	51.7	0.00	0.00	16.0	16.0	0.00	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	3.60	3.70	0.09	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.16	4.08	2.47	40.4	0.00	0.00	16.0	16.0	0.00	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	3.60	3.70	0.09	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.58	3.51	2.05	35.7	0.00	0.00	13.7	13.7	0.00	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	3.09	3.17	0.08	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.65	0.64	0.37	6.51	0.00	0.00	2.51	2.51	0.00	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	0.56	0.58	0.01	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	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
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	4.12	4.04	1.80	50.4	0.00	0.00	16.0	16.0	0.00	3.76	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	1.09	—	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	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	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	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	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	—	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	0.08	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	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	—	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	0.01	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	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	—	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	0.07	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	4.12	4.04	1.80	50.4	0.00	0.00	16.0	16.0	0.00	3.76	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	1.09	—	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	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	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	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	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	—	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	0.08	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	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	—	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	0.01	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	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	—	0.13	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 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	16.0	16.0	0.00	3.76	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	3.60	3.70	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
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	13,242
Vendor	0.44	0.27	11.3	4.19	0.09	0.09	3.60	3.70	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
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	11,634
Vendor	0.39	0.24	9.44	3.54	0.08	0.08	3.08	3.16	0.08	0.85	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
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
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	14,637
Vendor	0.47	0.29	10.6	4.07	0.09	0.09	3.60	3.70	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
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	13,242
Vendor	0.44	0.27	11.3	4.19	0.09	0.09	3.60	3.70	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
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	11,634
Vendor	0.39	0.24	9.44	3.54	0.08	0.08	3.08	3.16	0.08	0.85	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
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

3.21. 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	3.60	3.70	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	3.60	3.70	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	3.08	3.16	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	0.56	0.58	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	—	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	—	2,054	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	3.78	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	3.60	3.70	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	3.60	3.70	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	3.08	3.16	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	0.56	0.58	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

3.23. 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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.91	2.39	35.7	0.00	0.00	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	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
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	0.85	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	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	—	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	3.57	3.03	1.72	46.6	0.00	0.00	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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.49	2.91	2.39	35.7	0.00	0.00	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	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
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	0.85	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	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

3.25. 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	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	—	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

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	3.49	2.95	1.72	45.9	0.00	0.00	16.0	16.0	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

3.27. 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	3.70	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	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.77	2.31	1.51	30.5	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	3.08	3.16	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.42	0.28	5.57	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	0.56	0.58	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

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-Roa 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-Roa d Equipm ent	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-Roa d Equipm ent	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	3.36	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	3.70	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	0.00	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	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	2.77	2.31	1.51	30.5	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	3.08	3.16	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.42	0.28	5.57	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	0.56	0.58	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

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	—	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 Equipment	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	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.67	44.6	0.00	0.00	16.0	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	3.60	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.84	34.0	0.00	0.00	16.0	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	3.60	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.74	2.24	1.51	30.4	0.00	0.00	13.7	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	3.08	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.28	5.54	0.00	0.00	2.50	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	0.56	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	0.00

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	—	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	3.24	2.69	1.67	44.6	0.00	0.00	16.0	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	3.60	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.24	2.69	1.84	34.0	0.00	0.00	16.0	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	3.60	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	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.74	2.24	1.51	30.4	0.00	0.00	13.7	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	3.08	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.41	0.28	5.54	0.00	0.00	2.50	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	0.56	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	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

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	—	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	0.93	0.78	6.48	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	0.80	0.67	5.57	10.5	0.02	0.11	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.02	1.92	< 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	3.20	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	1.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.80	33.3	0.00	0.00	16.0	16.0	0.00	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	3.70	0.09	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.21	1.51	29.9	0.00	0.00	13.7	13.7	0.00	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	3.17	0.08	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	5.46	0.00	0.00	2.51	2.51	0.00	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	0.58	0.01	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

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	1.09	—	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.11	2.57	1.80	33.3	0.00	0.00	16.0	16.0	0.00	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	3.70	0.09	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.21	1.51	29.9	0.00	0.00	13.7	13.7	0.00	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	3.17	0.08	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.49	0.40	0.28	5.46	0.00	0.00	2.51	2.51	0.00	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	0.58	0.01	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

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-Roa 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-Roa d Equipm ent	0.79	0.66	5.50	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-Roa d Equipm ent	0.14	0.12	1.00	1.90	< 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	3.11	2.57	1.67	43.9	0.00	0.00	16.0	16.0	0.00	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	0.09	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.57	2.53	1.80	33.2	0.00	0.00	16.0	16.0	0.00	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	0.09	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	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	3.08	3.16	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	0.56	0.58	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	—	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	3.11	2.57	1.67	43.9	0.00	0.00	16.0	16.0	0.00	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	0.09	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	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.57	2.53	1.80	33.2	0.00	0.00	16.0	16.0	0.00	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	0.09	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	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	3.08	3.16	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	0.56	0.58	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

3.35. 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	—	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	3.07	2.53	1.67	43.4	0.00	0.00	16.0	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	3.60	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	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	—	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	3.60	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	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	—	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	3.08	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	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	—	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	0.01	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	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

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	3.07	2.53	1.67	43.4	0.00	0.00	16.0	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	3.60	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	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	—	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	3.60	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	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	—	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	3.08	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	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	—	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	0.01	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	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	—	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	0.01	0.01	0.04	0.09	< 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	0.01	0.02	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.44	1.80	33.0	0.00	0.00	16.0	16.0	0.00	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	0.09	1.00	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	0.00	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	0.01	< 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	0.00	< 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-Roa Equipment	< 0.005	< 0.005	< 0.005	0.02	< 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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.48	2.44	1.80	33.0	0.00	0.00	16.0	16.0	0.00	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	0.09	1.00	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	0.00	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	0.01	< 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	0.00	< 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

3.39. 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-Roa 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	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-Roa d Equipm ent	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	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-Roa d Equipm ent	0.44	0.37	4.14	8.03	0.01	0.06	—	0.06	0.05	—	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	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.08	0.07	0.76	1.47	< 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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	84.6	84.6	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	14.0	14.0	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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 Equipm	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	84.6	84.6	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	—	14.0	14.0	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	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	—	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	—	0.47	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	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	—	0.47	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	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 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
Hauling	0.00	0.00	0.00	0.00	0.00	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
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	0.09	0.07	0.60	0.88	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 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

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
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	0.50	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
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	0.39	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
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	0.07	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
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

3.44. Architectural Coating (2048) - Mitigated

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

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

Off-Road	0.11	0.09	0.74	1.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	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
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	0.09	0.07	0.60	0.88	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 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
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
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	0.50	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
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	0.39	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
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	0.07	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
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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
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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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
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
% 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
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
% Reduced	19%	19%	1%	23%	< 0.5%	5%	—	< 0.5%	4%	—	< 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
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
% Reduced	19%	19%	1%	23%	< 0.5%	5%	—	< 0.5%	4%	—	< 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

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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

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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	674	674	—	—	—	674
Total	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

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.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,032	1,032
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
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

4.2. 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

Daily, Winter (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
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

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

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	4,163	4,163	7.51	0.91	—	4,622
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	—	—	—	—	—	—	—	—	—	—	—	—	4,348	4,348	7.84	0.95	—	4,828
Daily, Winter (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
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

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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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	—	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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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

4.2.4. 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
University/College (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
Industrial 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

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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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	—	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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	31.8	29.4	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Total	98.7	96.2	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	66.9	66.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.2	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.6	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	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	0.01	< 0.005	< 0.005	—	0.01
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Government 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

4.4.2. 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	< 0.005	< 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
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

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
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Government 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

Daily, Winter (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
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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	6.51	0.00	6.51	0.65	0.00	—	22.8
Industria l 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
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138

Industrial	—	—	—	—	—	—	—	—	—	—	—	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
Daily, Winter (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
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

Government 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
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	171	171

4.6.2. 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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,031	1,031
Govern ment 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
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industria l 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

University/Colleg	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	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)

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Croplan	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Croplan d	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185

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	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185

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	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
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

5.9.2. 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

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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)

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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	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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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

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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	—	—	—	—	—	—	—	—	—	—	—	299	25.8	325	30.7	0.73	—	1,310
Waste	—	—	—	—	—	—	—	—	—	—	—	455	0.00	455	45.5	0.00	—	1,593
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	180
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	674	674	—	—	—	674
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.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,085	1,085
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,073	4,073	—	—	—	4,073
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	0.28	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
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
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	6.57	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
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
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)	< 0.005	< 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	< 0.005	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.28	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
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

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	6.57	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
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
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)	< 0.005	< 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

4.2. 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

Daily, Winter (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
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

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

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	4,163	4,163	7.51	0.91	—	4,622
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	—	—	—	—	—	—	—	—	—	—	—	—	4,348	4,348	7.84	0.95	—	4,828
Daily, Winter (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
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

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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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	—	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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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

4.2.4. 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
University/College (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
Industrial 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

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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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	—	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
University/College (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
Industrial 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
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
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	3.51	1.76	31.9	26.8	0.19	2.43	—	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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	31.8	29.4	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Total	98.7	96.2	1.50	179	0.01	0.32	—	0.32	0.24	—	0.24	—	735	735	0.03	0.01	—	738
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	61.2	61.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	5.61	5.61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	66.9	66.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.2	11.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.02	1.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.38	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11.6	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	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	0.01	< 0.005	< 0.005	—	0.01
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Government 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

4.4.2. 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	< 0.005	< 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
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

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
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	0.27	0.09	0.36	0.03	< 0.005	—	1.26
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	291	25.1	316	29.9	0.71	—	1,275
Government 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

Daily, Winter (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
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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	6.51	0.00	6.51	0.65	0.00	—	22.8
Industria l 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
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	39.3	0.00	39.3	3.93	0.00	—	138

Industrial	—	—	—	—	—	—	—	—	—	—	—	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
Daily, Winter (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
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

Government 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
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	179	179
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	180	180

4.6.2. 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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,084	1,084
Govern ment 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
Universit y/Colleg e (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Industria l 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

University/Colleg	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Croplan	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Croplan d	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185

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	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954

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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,119	1,119	—	—	—	1,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cropland	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	185	185	—	—	—	185

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	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,044	3,044	—	—	—	3,044
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-90.4	-90.4	—	—	—	-90.4
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,954	2,954	—	—	—	2,954
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
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

5.9.2. 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)

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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)

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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	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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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

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

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 (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	1,076,52 0
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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

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
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
Conveni ence Market (24 hour)	3.33	3.20	1.68	38.1	0.12	0.03	13.4	13.4	0.03	3.39	3.42	—	11,752	11,752	0.22	0.29	1.03	11,846
Fast Food Restaura nt with Drive Thru	7.66	7.36	3.86	87.6	0.27	0.07	30.7	30.8	0.07	7.78	7.85	—	27,001	27,001	0.50	0.67	2.36	27,216
High Turnover (Sit Down Restaura nt)	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 Restaura nt 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
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

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

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	0.27	0.25	0.32	6.82	0.03	0.01	3.75	3.76	0.01	0.95	0.96	—	2,734	2,734	0.02	0.05	0.11	2,750
University/College (4yr)	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	< 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	134	135	0.27	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

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
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)	3.33	3.20	1.68	38.1	0.12	0.03	13.4	13.4	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	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	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

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
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	0.27	0.25	0.32	6.82	0.03	0.01	3.75	3.76	0.01	0.95	0.96	—	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	< 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	134	135	0.27	34.1	34.4	—	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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Daily, Winter (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

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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

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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Gasolin Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Conveni ence Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaura nt with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
High Turnover (Sit Down Restaura nt)	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaura nt 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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Industria 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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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

4.2.3. 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
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	—	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	—	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	—	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
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	—	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	—	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	—	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	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	—	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	—	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	—	0.00
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	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	—	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	—	< 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	—	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	—	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	—	< 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	—	< 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	—	< 0.005	—	20.1	20.1	< 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	—	42,263	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	—	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	—	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	—	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
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	—	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	—	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	—	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	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	—	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	—	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	—	0.00
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	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	—	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	—	< 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	—	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	—	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	—	< 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	—	< 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	—	< 0.005	—	20.1	20.1	< 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	—	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	—	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	216	199	10.6	1,256	0.07	2.11	—	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	—	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	—	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	—	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	6.98	6.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape 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

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	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
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	—	—	—	—	—	—	—	—	—	—	—	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	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
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	—	0.14
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

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
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

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 Restaura nt with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	84.4	0.00	84.4	8.44	0.00	—	295
High Turnover (Sit Down Restaura nt)	—	—	—	—	—	—	—	—	—	—	—	89.8	0.00	89.8	8.97	0.00	—	314
Fast Food Restaura nt 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

Industria 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

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,730	0.00	2,730	273	0.00	—	9,552
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	1.51	0.00	1.51	0.15	0.00	—	5.28

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	—	—	—	—	—	—	—	—	—	—	—	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	—	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

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
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
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
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,730	0.00	2,730	273	0.00	—	9,552
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	1.51	0.00	1.51	0.15	0.00	—	5.28
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	—	—	—	—	—	—	—	—	—	—	—	7.72	0.00	7.72	0.77	0.00	—	27.0

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	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Total	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435

4.6. 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
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
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,118	1,118
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.88	0.88
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.82	1.82
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.5	15.5
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	275	275
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.62	3.62

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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,118	1,118
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.88	0.88
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.82	1.82
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.5	15.5

Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	275	275
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.62	3.62
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

4.7. 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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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

Grassla	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadle af Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241
Grassla nd	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadle af Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,517	3,517	—	—	—	3,517
Grassla nd	—	—	—	—	—	—	—	—	—	—	—	—	-76.1	-76.1	—	—	—	-76.1
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,441	3,441	—	—	—	3,441

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,517	3,517	—	—	—	3,517
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-76.1	-76.1	—	—	—	-76.1
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,441	3,441	—	—	—	3,441

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	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

5.10. 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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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)

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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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8. User Changes to Default Data

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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	652	588	1,628	801	13.9	94.3	460	554	91.3	124	215	37,900	1,515,733	1,553,633	3,020	220	8,575	1,703,201
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
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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	1,504,820	1,535,978	2,989	220	8,644	1,684,808
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

Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,734	4,734	—	—	—	4,734
Total	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

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	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
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	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
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

Vegetati	—	—	—	—	—	—	—	—	—	—	—	—	28,592	28,592	—	—	—	28,592
Total	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
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
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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	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
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	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
Vegetation	—	—	—	—	—	—	—	—	—	—	—	—	4,734	4,734	—	—	—	4,734
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

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
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/Servic e 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 Restaura nt 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 Restaura nt)	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 Restaura nt 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
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	0.96	0.17	0.01	0.02	0.32	0.34	0.02	0.09	0.10	—	846	846	0.01	0.13	< 0.005	886
University/College (4yr)	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
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	0.48	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

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

Industria 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

Industria 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

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	0.96	0.17	0.01	0.02	0.32	0.34	0.02	0.09	0.10	—	846	846	0.01	0.13	< 0.005	886
University/College (4yr)	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
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	0.48	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
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

4.2. 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
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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Daily, Winter (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

Universit (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Gasolin e/Servic e Station	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Conveni ence 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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
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

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Daily, Winter (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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	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

4.2.3. 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
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	—	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	—	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	—	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
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	—	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	—	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	—	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	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	—	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	—	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	—	0.00
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	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	—	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	—	< 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	—	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	—	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	—	< 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	—	< 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	—	< 0.005	—	20.1	20.1	< 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	—	42,263	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

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
Apartments 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	—	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
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	—	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	—	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	—	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	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	—	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	—	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	—	0.00
Hotel	0.01	0.01	0.09	0.08	< 0.005	0.01	—	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	—	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	—	< 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	—	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	—	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	—	< 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	—	< 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	—	< 0.005	—	20.1	20.1	< 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	—	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	—	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	216	199	10.6	1,256	0.07	2.11	—	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	—	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	—	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	—	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	6.98	6.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape 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

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	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
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	—	—	—	—	—	—	—	—	—	—	—	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	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
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	—	0.14
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

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
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

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 Restaura nt with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	84.4	0.00	84.4	8.44	0.00	—	295
High Turnover (Sit Down Restaura nt)	—	—	—	—	—	—	—	—	—	—	—	89.8	0.00	89.8	8.97	0.00	—	314
Fast Food Restaura nt 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

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,730	0.00	2,730	273	0.00	—	9,552
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	1.51	0.00	1.51	0.15	0.00	—	5.28

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	—	—	—	—	—	—	—	—	—	—	—	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	—	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

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
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
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
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.95	0.00	0.95	0.10	0.00	—	3.34
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	9.39	0.00	9.39	0.94	0.00	—	32.8
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	2,730	0.00	2,730	273	0.00	—	9,552
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	1.51	0.00	1.51	0.15	0.00	—	5.28
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	—	—	—	—	—	—	—	—	—	—	—	7.72	0.00	7.72	0.77	0.00	—	27.0

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	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Total	—	—	—	—	—	—	—	—	—	—	—	2,983	0.00	2,983	298	0.00	—	10,435

4.6. 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
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
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,118	1,118
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.88	0.88
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.82	1.82
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.5	15.5
Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	275	275
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.62	3.62

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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1,118	1,118
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
University/College (4yr)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.88	0.88
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.82	1.82
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.5	15.5

Convenience Market (24 hour)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	275	275
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.52	3.52
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.62	3.62
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

4.7. 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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment	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)

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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

Grassla	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadle af Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241
Grassla nd	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadle af Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,517	3,517	—	—	—	3,517
Grassla nd	—	—	—	—	—	—	—	—	—	—	—	—	-76.1	-76.1	—	—	—	-76.1
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,441	3,441	—	—	—	3,441

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	21,241	21,241	—	—	—	21,241
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-460	-460	—	—	—	-460
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	20,781	20,781	—	—	—	20,781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Broadleaf Forest	—	—	—	—	—	—	—	—	—	—	—	—	3,517	3,517	—	—	—	3,517
Grassland	—	—	—	—	—	—	—	—	—	—	—	—	-76.1	-76.1	—	—	—	-76.1
Urban	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,441	3,441	—	—	—	3,441

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. 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	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
Strip Mall	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	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	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
Strip Mall	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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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)

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	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
INITIAL PHASE MOBILE SOURCE CALEEMOD® INPUTS

Table B-1. Fleet Mix (Initial Phase)
Pacific Gateway
San Joaquin County, California

CalEEMod® Default[1]	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
	49%	3%	22%	16%	3%	1%	1%	2%	0%	0%	2%	0%	0%

Autos[2]	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2
	52%	3%	24%	17%	3%	1%

Heavy-Duty Trucks[2]	HHDT
	100%

Notes:

[1] CalEEMod® default for San Joaquin County calendar year 2032.

[2] Vehicle categories are defined based on Fehr & Peer's assumed vehicle categories.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
HHDT - Heavy Heavy-Duty Truck
LDA - Light-Duty Automobile
LHD - Light Heavy-Duty Truck
LDT - Light-Duty Truck
MCY - Motorcycle
MDV - Medium-Duty Vehicle
MH - Motor Home
MHD - Medium Heavy-Duty Truck
OBUS - Other Buses
SBUS - School Bus
UBUS - Urban Buses

Year 2032

Table B-2. Trip Lengths and Vehicle Miles Traveled by Autos to General Industrial Land Use (Initial Phase)
Pacific Gateway
San Joaquin County, California

Land Use	Vehicle Type	Trip Type	Average One-Way Trip Length[1,2]	Daily Trips (one-way trips/day)[3]	Daily VMT[4,5]
General Industrial	Auto	Home-Work	70.0	2,026	141,899
	Auto	Work-Other	13.4	907	12,131
	Auto	Other-Other	10.5	1,306	13,742

Notes:

[1] Trip length for Home-Work trips are based on the division of daily VMT and daily trips.

[2] Trip lengths for Work-Other and Other-Other trips are based on CalEEMod® defaults.

[3] Total daily trips for each land use are based on Project-specific data provided by Fehr & Peers. The trips were split into trip types based on CalEEMod® default trip type distribution.

[4] Daily VMT for Home-Work trips are based on Project-specific data provided by Fehr & Peers.

[5] Daily VMT is estimated as a product of average trip length and number of trips presented in this table.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel

VMT - vehicle miles traveled

yr - year

APPENDIX C
FULL BUILDOUT MOBILE SOURCE CALEEMOD® INPUTS

Table C-1. Fleet Mix (Full Buildout)
Pacific Gateway
San Joaquin County, California

CalEEMod® Default[1]	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	OBUS	UBUS	MCY	SBUS	MH
	49%	3%	24%	15%	2%	1%	2%	3%	0%	0%	2%	0%	0%

Autos[2]	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2
	52%	3%	26%	16%	2%	1%

Heavy-Duty Trucks[2]	HHDT
	100%

Notes:

[1] CalEEMod® default for San Joaquin County calendar year 2050. While the project buildout is expected to be completed in a later year, the latest calendar year in EMFAC was 2050. Thus, this year was used to model the emission factors for the full buildout scenario in the absence of an emission factor specific to operation in the year 2057. Since it is expected that emission factors would continue to improve over time this is a conservative assumption.

[2] Vehicle categories are defined based on Fehr & Peer's assumed vehicle categories.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
HHDT - Heavy Heavy-Duty Truck
LDA - Light-Duty Automobile
LHD - Light Heavy-Duty Truck
LDT - Light-Duty Truck
MCY - Motorcycle
MDV - Medium-Duty Vehicle
MH - Motor Home
MHD - Medium Heavy-Duty Truck
OBUS - Other Buses
SBUS - School Bus
UBUS - Urban Buses

Year 2050

Table C-2. Trip Lengths and Vehicle Miles Traveled by Autos to General Industrial and Office Land Uses (Full Buildout)
Pacific Gateway
San Joaquin County, California

Land Use	Vehicle Type	Trip Type	Average One-Way Trip Length[1,2]	Daily Trips (one-way trips/day)[3]	Daily VMT[4,5]
Business Park	Auto	Home-Work	47.5	486	23,101
	Auto	Work-Other	13.4	218	2,910
	Auto	Other-Other	10.5	313	3,296
General Industrial	Auto	Home-Work	51.3	12,618	647,465
	Auto	Work-Other	13.4	5,650	75,541
	Auto	Other-Other	10.5	8,134	85,569

Notes:

[1] Trip length for Home-Work trips are based on the division of daily VMT and daily trips.

[2] Trip lengths for Work-Other and Other-Other trips are based on CalEEMod® defaults.

[3] Total daily trips for each land use are based on Project-specific data provided by Fehr & Peers. The trips were split into trip types based on CalEEMod® default trip type distribution.

[4] Daily VMT for Home-Work trips are based on Project-specific data provided by Fehr & Peers.

[5] Daily VMT estimated as a product of average trip length and number of trips presented in this table.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel

VMT - vehicle miles traveled

yr - year

APPENDIX D
GHG CONSISTENCY

Table D-1. Consistency with 2022 CARB Scoping Plan Update
Pacific Gateway
San Joaquin Valley, California

2022 CARB Scoping Plan Priority Areas[1]	Priority GHG Reduction Strategies	Consistency
Transportation Electrification	Convert local government fleets to ZEVs and provide EV charging at public sites	**Consistent.** Although this goal is not applicable to an individual development project, the Project includes preferential parking spaces equipped with charging stations for electric vehicles and other clean air vehicles in all parking lots to encourage energy-efficient vehicular use.
	Create a jurisdiction-specific ZEV ecosystem to support deployment of ZEVs statewide (such as building standards that exceed state building codes, permit streamlining, infrastructure siting, consumer education, preferential parking policies, and ZEV readiness plans)	
VMT Reduction	Reduce or eliminate minimum parking standards	**Consistent.** Although this goal is not applicable to an individual development project, the Project will include transportation demand management (TDM) strategies to reduce VMT. These include: 1. Implement 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. 2. Implement Employee Parking Cash-Out program – requires project employers to offer employees the choice of foregoing their current subsidized/free parking for a cash payment (in exchange for not driving). 3. Expand Bikeway Network – construct a Class I off-street multi-use path or Class II on-street bike lane in each direction of MacArthur Drive for the two-mile distance from the north edge of the project site to Linne Road. 4. Extend Public Transit Service to Project Site – expand San Joaquin Regional Transit District fixed-route bus service to the project site. 5. Operate a private employee shuttle system during peak periods that circulates within the site and off-site to the ACE Station located on Tracy Boulevard at Linne Road.
	Implement Complete Streets policies and investments, consistent with general plan circulation element requirements	
	Increase access to public transit by increasing density of development near transit, improving transit service by increasing service frequency, creating bus priority lanes, reducing or eliminating fares, microtransit, etc.	
	Increase public access to clean mobility options by planning for and investing in electric shuttles, bike share, car share, and walking	
	Implement parking pricing or transportation demand management pricing strategies	
	Amend zoning or development codes to enable mixed-use, walkable, transit-oriented, and compact infill development (such as increasing the allowable density of a neighborhood)	
	Preserve natural and working lands by implementing land use policies that guide development toward infill areas and do not convert "greenfield" land to urban uses (e.g., green belts, strategic conservation easements)	
Building Decarbonization	Adopt all-electric new construction reach codes for residential and commercial uses	**Consistent.** Although this goal is not applicable to an individual development project, the Project would meet the CalGreen Building Standards Code in effect at the time of building permit application, which would include a number of energy saving requirements. The Project buildings will be LEED compliant and encouraged to become certified. Additionally, 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. Further, all landscaping equipment used to maintain individual buildings and Pacific Gateway master landscaping, parks, and open space will be required to be zero emission. Forklifts and yard mules at industrial buildings greater than 300,000 square feet will be zero emission. Finally, building construction shall meet the current applicable standards for energy efficiency to include energy efficient heating and cooling systems, energy efficient appliances, building systems equipment, and HVAC control systems. To ensure that all systems are working at their maximum capacity and design efficiencies, the Project will include mandatory inspections of energy systems (e.g., heat furnace, air conditioner and mechanical equipment) for nonresidential buildings over 10,000 square feet.
	Adopt policies and incentive programs to implement energy efficiency retrofits for existing buildings, such as weatherization, lighting upgrades, and replacing energy-intensive appliances and equipment with more efficient systems (such as Energy Star-rated equipment and equipment controllers)	
	Adopt policies and incentive programs to electrify all appliances and equipment in existing buildings such as appliance rebates, existing building reach codes, or time of sale electrification ordinances	
	Facilitate deployment of renewable energy production and distribution and energy storage on privately owned land uses (e.g., permit streamlining, information sharing)	
	Deploy renewable energy production and energy storage directly in new public projects and on existing public facilities (e.g., solar photovoltaic systems on rooftops of municipal buildings and on canopies in public parking lots, battery storage systems in municipal buildings)	

Notes:

[1] CARB's 2022 Scoping Plan, Appendix D, lists three Priority Areas that local governments should focus on when preparing a CEQA-qualified CAP in order to address the sources of GHGs within their jurisdiction. These represent areas which local governments have the most authority over and have the highest GHG reduction potential. These include transportation electrification, VMT reduction, and building decarbonization. Available at: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf. Accessed: March 2025.

Abbreviations:

ACE - Altamont Commuter Express
CalGreen - California Green Building Standards Code
CAP - Climate Action Plan
CARB - California Air Resources Board
CEQA - California Environmental Quality Act
CTR - Commute Trip Reduction
EV - electric vehicle
GHG - greenhouse gas
HVAC - heating, ventilation, and air conditioning
LEED - Leadership in Energy and Environmental Design
PG&E - Pacific Gas & Electric
TDM - transportation demand management
VMT - vehicle miles traveled
ZEV - zero emission vehicle

Table D-2. Consistency with San Joaquin County Regional Transportation Plan/Sustainable Communities Strategy
Pacific Gateway
San Joaquin Valley, 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 internally 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 accomodate the installation of roof-mounted solar. The Project has also committed to incorporating solar photo voltaic (PV) panels sized to accomodate "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.
2	Maximize mobility and accessibility.	Strategy No. 5: Optimize the public transportation system to provide efficient and convenient access for users of all income levels.	**Consistent.** While 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).
		Strategy No. 6: Encourage infill development and development near transit, including transit-oriented development to maximize existing transit investments.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 7: Provide transportation improvements to facilitate nonmotorized travel, including incorporation of complete streets elements as appropriate.	**Consistent.** The Project will provide end-of-trip bicycle facilities, which includes installation and maintenance of bike parking, bike lockers, showers, and personal lockers for employee use. Class 1 bicycle paths have been included on all major circulation streets within the project area to encourage and allow for alternatives to motor vehicles. All roads will include a landscape strip on both sides planted with street trees. Landscape setbacks will generally be planted with grasses, evergreen shrubs, and double rows of large screen trees. Sidewalks will be present on both sides of most streets and will incorporate accessible pedestrian signals. The Project has also committed to nonmotorized travel-related mititgation measures including Mitigation Measure 4.12-2, which states that, "Prior to the occupancy of the first building within the second phase of development, the project applicant shall implement Transportation Demand Management (TDM) Strategy 3 from Mitigation Measure 4.12-4(b), as follows: Expand Bikeway Network – construct a Class I off-street multi-use path on the west side of MacArthur Drive or Class II on-street bike lane in each direction of MacArthur Drive for the two-mile distance from the north edge of the project site to Linne Road."

Table D-2. Consistency with San Joaquin County Regional Transportation Plan/Sustainable Communities Strategy
Pacific Gateway
San Joaquin Valley, California

#	Goal	Strategy	Consistency Analysis
2 *(Cont'd)*	Maximize mobility and accessibility.	Strategy No. 8: Improve freight access to key strategic economic centers.	Consistent. The Project will create new employment generating uses located nearby the following interchanges: - Interstate 580 and Interstate 5 interchange; - Interstate 580/Highway 132 Interchange; - S Chrisman Rd/Highway 132 Interchange; - S Bird Rd/Highway 132 Interchange; and - W Lehman Rd/Interstate 5 Interchange
		Strategy No. 9: Promote safe and efficient strategies to improve the movement of goods by air, water, rail, and roadway.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
3	Increase safety and security.	Strategy No. 10: Facilitate projects that reduce the number and severity of traffic incidents.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 11: Support local and state efforts for transportation network resiliency, reliability, and climate adaptation.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
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**. The proposed Project includes several potential future intersection and roadway improvements that would be triggered by full buildout of the proposed project in the Off-Site Improvements Study Area, which is generally located north of the project site. However, the list of off-site physical roadway improvements that would be constructed by the proposed Project is not definitive at this time due to a variety of factors, with the main factor being that many of the intersections/roadways are in jurisdictions other than San Joaquin County, and, thus, successful implementation of identified improvements would require other agency approval (e.g., City of Tracy, Caltrans). In such instances of extraterritorial jurisdiction, the County cannot impose the improvements on the other jurisdictions.
		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 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.
5	Support economic vitality.	Strategy No. 17: Support transportation improvements that improve economic competitiveness, revitalize commercial corridors and strategic economic centers, and enhance travel and tourism opportunities.	**Consistent**. The Project plans to construct roadways to support the Project, which 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.
		Strategy No. 18: Support workforce training across industries, particularly transportation-related industries.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 19: Encourage and/or strengthen small business while supporting large employer recruitment.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 20: Invest in high-speed internet infrastructure to support e-business and reduce commuting.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
6	Promote interagency coordination and public participation for transportation decision making and planning efforts.	Strategy No. 21: Provide equitable access to transportation planning.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 22: Engage the public early, clearly, and continuously.	**Consistent.** The Project would not impede implementation of this strategy.
		Strategy No. 23: Use a variety of methods to engage the public and encourage representation from diverse income and ethnic backgrounds.	**Consistent.** The Project would not impede implementation of this strategy.

Table D-2. Consistency with San Joaquin County Regional Transportation Plan/Sustainable Communities Strategy
Pacific Gateway
San Joaquin Valley, California

#	Goal	Strategy	Consistency Analysis
7	Maximize cost-effectiveness.	Strategy No. 24: Support efforts to streamline the development process.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 25: Support the use of state and federal grants to supplement local funding and pursue discretionary grant funding opportunities from outside the region.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 26: Support projects that maximize cost-effectiveness.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 27: Maximize funding of existing transportation options.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
8	Improve the quality of life for residents.	Strategy No. 28: Promote a broader range of housing types.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 29: Support the development a regional trust fund dedicated to addressing housing issues.	**Consistent.** While the strategy does not specifically pertain to this project, the Project would not impede implementation of this strategy.
		Strategy No. 30: Enhance public health through active transportation projects.	**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.sjcog.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

Table D-3. Consistency with San Joaquin County General Plan
Pacific Gateway
San Joaquin Valley, 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). The project is placed along Chrisman Road, an existing Surface Transportation Assistance Act (STAA) route, making efficient use of existing infrastructure.
LU-1.6	New Employment-Generating Uses	The County shall direct new employment generating uses to locate within Urban and Rural Communities and City Fringe Areas, at freeway interchanges, and in other areas designated for commercial or industrial development. The County may allow employment-generating uses in other unincorporated areas when development proposals demonstrate that the project will not conflict with adjacent uses and will provide: jobs to County residents; adequate infrastructure and services (i.e., water, sewer, drainage, and transportation); and positive tax benefits to the County.	**Consistent.** The Project will create new employment generating uses located nearby the following interchanges: - Interstate 580 and Interstate 5 interchange; - Interstate 580/Highway 132 Interchange; - S Chrisman Rd/Highway 132 Interchange; - S Bird Rd/Highway 132 Interchange; and - W Lehman Rd/Interstate 5 Interchange In addition, the Project will provide jobs to County residents and adequate infrastructure/services. Improvements for the construction of the infrastructure to develop the project area includes without limitation, the complete roadways network of streetlights, traffic signals, medians and joint trench within roads, water system and infrastructure, sewer treatment and infrastructure, fire protection and infrastructure, and electric and natural gas infrastructure.
LU-1.8	Support for Alternative Transportation Modes	The County shall encourage land use patterns that promote walking and bicycling and the use of public transit as alternatives to the personal automobile.	**Consistent.** The Project will establish pedestrian and bicycle circulation system within the Project site to encourage employee wellness and provide non-vehicle alternatives.
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 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 will 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 will be designed to accept roof-mounted solar panels affording tenants/users the opportunity to utilize solar energy. The Project has committed to incorporating solar photo voltaic (PV) panels sized to accomodate "base building" energy needs for limited industrial zoned buildings, as described in Section 1.3 of the Greenhouse Gas Emissions Technical Report. - 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.

Table D-3. Consistency with San Joaquin County General Plan
Pacific Gateway
San Joaquin Valley, California

#	General Plan Policy Name	General Plan Policy Description	Consistency Analysis
LU-5.22	Mixed Use Development	The County shall require new mixed-use developments to be developed under a single plan that details the full buildout of the development and any associated phasing for construction and includes specific design guidelines and standards that address the overall site design, scale of development, relationship to adjacent uses, circulation and parking, architecture, infrastructure, and landscaping.	**Consistent.** The Project's Specific Plan will serve as a reference for the full buildout of the development, including specific design guidelines and standards that address the overall site design, scale of development, relationship to adjacent uses, circulation and parking, architecture, infrastructure, and landscaping.
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 providing tenants with solar energy. The Project has committed to incorporating solar PV panels sized to accomodate "base building" energy needs for limited industrial zoned buildings, as described in Section 1.3 of the Greenhouse Gas Emissions Technical Report.
TM-6.7	Bicyclist Amenities	The County shall encourage new large employers to provide bicycle racks.	**Consistent.** The Project will provide end-of-trip bicycle facilities, which includes installation and maintenance of bike parking, bike lockers, showers, and personal lockers for employee use.
TM-7.2	Critical Facilities Access	The County shall require new development to provide adequate access to facilities critical to goods movement, including railroad yards, intermodal facilities, the Port of Stockton, the Stockton Metropolitan Airport, and Interstate highways.	**Consistent.** As noted in LU-1.6, the Project will be located nearby to Interstate 5 and Interstate 580.
IS-4.18	Graywater and Rainwater Systems	The County shall encourage homeowners, businesses, and developers to install graywater systems and rainwater harvest systems, consistent with local and State guidelines, regulations, and standards, in order to reduce consumption of potable water.	**Consistent.** The Project will use the recycled water generated from the treated wastewater for landscape irrigation, which would reduce consumption of potable water. Additionally, Stormwater Best Management Practices, such as rain gardens, bioswales and rainwater harvesting, will be encouraged to be incorporated into the landscape to maximize on-site infiltration of stormwater, to the extent possible.
IS-4.19	Water Efficient Landscaping	The County shall encourage water efficient landscaping and use of native, drought-tolerant plants consistent with the Model Landscape Ordinance.	**Consistent.** 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.
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-5.11**, 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.
PHS-6.3	GHG Reduction Strategies	The County shall promote greenhouse gas emission reductions by encouraging efficient farming methods (e.g., no-till farming, crop rotation, cover cropping); supporting the installation of renewable energy technologies; and protecting grasslands, open space, oak woodlands, riparian forest and farmlands from conversion to urban uses.	**Consistent.** The Project will include parks and open spaces throughout the Project area and the Project buildings shall be designed to accept roof-mounted solar panels providing tenants/users with solar energy. The Project has committed to incorporating solar PV panels sized to accomodate "base building" energy needs for limited industrial zoned buildings, as described in Section 1.3 of the Greenhouse Gas Emissions Technical Report.
PHS-6.6	Business-related GHG Reduction Strategies	The County shall encourage all businesses to help reduce GHG emissions by: replacing high mileage fleet vehicles with more efficient and/or alternative fuel vehicles; increasing the energy efficiency of facilities; transitioning toward the use of renewable energy instead of non-renewable energy sources; adopting purchasing practices that promote emissions reductions and reusable materials; and increasing recycling.	**Consistent.** As noted for **PHS-5.14**, **ED-2.4**, **LU-2.2**, and **NCR-5.11** the Project will implement strategies and build infrastructure to promote the efficient use of resources and thereby reduce the greenhouse gas impact of operations and construction. Please note that there are uncertainties related to which businesses will operate within the Project, as businesses/tenants have not yet been selected.

Table D-3. Consistency with San Joaquin County General Plan
Pacific Gateway
San Joaquin Valley, California

#	General Plan Policy Name	General Plan Policy Description	Consistency Analysis
PHS-6.7	New Development	The County shall require new development to incorporate all feasible mitigation measures to reduce construction and operational GHG emissions.	**Consistent.** The Project has incorporated the feasible project design features to reduce construction and operational GHG emissions. This includes the incorporation of various Transportation Demand Management (TDM) strategies, as described in the Project's Transportation Impact Analysis Report.
PHS-6.9	Public Awareness	The County shall support public awareness about climate change and encourage County residents and businesses to become involved in activities and lifestyle changes that will aid in reduction of greenhouse gas emissions through alternative energy use, energy and water conservation, waste reduction and recycling, and other sustainable practices.	**Consistent.** The Project will support public awareness of sustainable practices, such as through implementation 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. This program will include incentives for commuters to use alternative modes of transportation.
NCR-3.5	Low Impact Development	The County shall require new development to minimize or eliminate stormwater quality and hydro-modification impacts through site design, source controls, runoff reduction measures, best management practices (BMPs), and Low Impact Development (LID).	**Consistent.** As described in the Specific Plan, Stormwater Best Management Practices, such as rain gardens, bioswales and rainwater harvesting, should be incorporated into the landscape to maximize on-site infiltration of stormwater, to the extent possible. The Project's drainage system has been designed to utilize retention ponds.
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 providing tenants/users with solar energy. The Project has committed to incorporating solar PV panels sized to accomodate "base building" energy needs for limited industrial zoned buildings, as described in Section 1.3 of the Greenhouse Gas Emissions Technical Report.

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:
BMPs - best management practices
CTR - Commute Trip Reduction
HVAC - heating, ventilation, and air conditioning
LEED - Leadership in Energy and Environmental Design
LED - light emitting diode
LID - Low Impact Development