

# **Greenhouse Gas Emissions Assessment 477 9th Avenue Mixed Use Project**

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**San Mateo, California**

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**June 2023**

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**LIST OF ATTACHMENTS**

Attachment A – CalEEMod Output File for Greenhouse Gas Emissions

**LIST OF ACRONYMS AND ABBREVIATIONS**

| <b>Term</b>     | <b>Description</b>                       |
|-----------------|------------------------------------------|
| AB              | Assembly Bill                            |
| ABAG            | Association of Bay Area Governments      |
| AQMD            | Air Quality Management District          |
| BAAQMD          | Bay Area Air Quality Management District |
| CalEEMod        | California Emissions Estimator Model     |
| CAP             | Climate Action Plan                      |
| CARB            | California Air Resources Board           |
| CCR             | California Code of Regulations           |
| CEQA            | California Environmental Quality Act     |
| CH <sub>4</sub> | Methane                                  |

## **LIST OF ACRONYMS AND ABBREVIATIONS**

|                     |                                                    |
|---------------------|----------------------------------------------------|
| CEQA                | California Environmental Quality Act               |
| City                | City of San Mateo                                  |
| CO <sub>2</sub>     | Carbon dioxide                                     |
| CO <sub>2</sub> e   | Carbon dioxide equivalent                          |
| County              | San Mateo County                                   |
| EO                  | Executive Order                                    |
| GHG                 | Greenhouse gas                                     |
| GWP                 | Global warming potential                           |
| HVAC                | Heating, ventilation, and air conditioning systems |
| IPCC                | Intergovernmental Panel on Climate Change          |
| MTCO <sub>2</sub> e | Metric Tons of Carbon Dioxide Equivalents          |
| N <sub>2</sub> O    | Nitrous oxide                                      |
| Project             | 477 9th Avenue Mixed Use Project                   |
| RTP                 | Regional Transportation Plan                       |
| SB                  | Senate Bill                                        |
| SCS                 | Sustainable Communities Strategy                   |
| SFBAAB              | San Francisco Bay Area Air Basin                   |
| USEPA               | U.S. Environmental Protection Agency               |
| VMT                 | Vehicle miles traveled                             |

## **1.0 INTRODUCTION**

This report documents the results of a Greenhouse Gas (GHG) Emissions Assessment completed for the 477 9<sup>th</sup> Avenue Mixed Use Project (Project), which includes the demolition of the existing 21,600 square foot, single-story office building on site, and the construction of a new five-story mixed-use office/residential building and associated features in the City of San Mateo (City), California. This assessment is based on the methodology recommended by the City of San Mateo and the Bay Area Air Quality Management District (BAAQMD) for project-level review and was prepared with consideration of the emissions reduction actions proposed by the Project. The purpose of this assessment is to estimate Project-generated GHG emissions attributable to the Project and to determine the level of impact the Project would have on the environment.

### **1.1 Project Location & Description**

The approximate 1.60-acre Project Site is located at the intersection of 9<sup>th</sup> Avenue and South Claremont Street in the City of San Mateo. The Project Site is surrounded mainly by commercial land uses. Structures adjacent to the Project Site range between one and three stories. The Project proposes the demolition of the existing 21,600 square foot, single-story office building and associated features to make way for the construction of a five-story mixed-use office/residential building. The building would include a total of 27,076 square feet of office space and 120 residential units with associated amenities. Twelve residential units are proposed for low-income residents. Additionally, the Project proposes to construct 166 vehicle parking spaces, with 152 in an above-ground structure and 14 surface level parking spaces, along with 142 bicycle parking spaces.

## 2.0 GREENHOUSE GAS EMISSIONS

### 2.1 Greenhouse Gas Setting

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead trapped, resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth. Without the greenhouse effect, the earth would not be able to support life as we know it.

Prominent GHGs contributing to the greenhouse effect are CO<sub>2</sub>, methane (CH<sub>4</sub>), and N<sub>2</sub>O. Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Fluorinated gases include chlorofluorocarbons, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and nitrogen trifluoride; however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of these GHG emissions in excess of natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming. It is "extremely likely" that more than half of the observed increase in global average surface temperature from 1951 to 2010 has been caused by the anthropogenic increase in GHG concentrations and other anthropogenic factors together (Intergovernmental Panel on Climate Change [IPCC] 2014).

Table 3-1 describes the primary GHGs attributed to global climate change, including their physical properties, primary sources, and contributions to the greenhouse effect.

Each GHG differs in its ability to absorb heat in the atmosphere based on the lifetime, or persistence, of the gas molecule in the atmosphere. CH<sub>4</sub> traps over 25 times more heat per molecule than CO<sub>2</sub>, and N<sub>2</sub>O absorbs 298 times more heat per molecule than CO<sub>2</sub> (IPCC 2014). Often, estimates of GHG emissions are presented in carbon dioxide equivalents (CO<sub>2</sub>e), which weigh each gas by its global warming potential. Expressing GHG emissions in CO<sub>2</sub>e takes the contribution of all GHG emissions to the greenhouse effect and converts them to a single unit equivalent to the effect that would occur if only CO<sub>2</sub> were being emitted.

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and TACs, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about one day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of any particular GHG molecule is dependent on multiple variables and cannot be pinpointed, it is understood that more CO<sub>2</sub> is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms. Of the total annual human-caused CO<sub>2</sub> emissions, approximately 55 percent are sequestered through ocean and land uptakes every year, averaged over the

last 50 years, whereas the remaining 45 percent of human-caused CO<sub>2</sub> emissions remains stored in the atmosphere (IPCC 2013).

| <b>Table 3-1. Greenhouse Gases</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Greenhouse Gas</b>              | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| CO <sub>2</sub>                    | Carbon dioxide is a colorless, odorless gas. CO <sub>2</sub> is emitted in a number of ways, both naturally and through human activities. The largest source of CO <sub>2</sub> emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, industrial facilities, and other sources. A number of specialized industrial production processes and product uses such as mineral production, metal production, and the use of petroleum-based products can also lead to CO <sub>2</sub> emissions. The atmospheric lifetime of CO <sub>2</sub> is variable because it is so readily exchanged in the atmosphere. <sup>1</sup>                                                                                                                                                                      |
| CH <sub>4</sub>                    | Methane is a colorless, odorless gas and is the major component of natural gas, about 87 percent by volume. It is also formed and released to the atmosphere by biological processes occurring in anaerobic environments. Methane is emitted from a variety of both human-related and natural sources. Human-related sources include fossil fuel production, animal husbandry (intestinal fermentation in livestock and manure management), rice cultivation, biomass burning, and waste management. These activities release significant quantities of CH <sub>4</sub> to the atmosphere. Natural sources of CH <sub>4</sub> include wetlands, gas hydrates, permafrost, termites, oceans, freshwater bodies, non-wetland soils, and other sources such as wildfires. The atmospheric lifetime of CH <sub>4</sub> is about 12 years. <sup>2</sup> |
| N <sub>2</sub> O                   | Nitrous oxide is a clear, colorless gas with a slightly sweet odor. Nitrous oxide is produced by both natural and human-related sources. Primary human-related sources of N <sub>2</sub> O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuels, adipic acid production, and nitric acid production. N <sub>2</sub> O is also produced naturally from a wide variety of biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N <sub>2</sub> O is approximately 120 years. <sup>3</sup>                                                                                                                                                                                                               |

Sources: <sup>1</sup>U.S. Environmental Protection Agency (USEPA) 2016a, <sup>2</sup>USEPA 2016b, <sup>3</sup>USEPA 2016c

The quantity of GHGs that it takes to ultimately result in climate change is not precisely known; it is sufficient to say the quantity is enormous, and no single project alone would measurably contribute to a noticeable incremental change in the global average temperature or to global, local, or microclimates. From the standpoint of the California Environmental Quality Act (CEQA), GHG impacts on global climate change are inherently cumulative.

### 2.1.1 Sources of Greenhouse Gas Emissions

In 2022, CARB released the 2022 edition of the California GHG inventory covering calendar year 2020 emissions. In 2020, California emitted 369.2 million gross metric tons of CO<sub>2</sub>e including from imported electricity. Combustion of fossil fuel in the transportation sector was the single largest source of California's GHG emissions in 2020, accounting for approximately 38 percent of total GHG emissions in the state. Continuing the downward trend from previous years, transportation emissions decreased 27 million metric tons of CO<sub>2</sub>e in 2020, though the intensity of this decrease was most likely from light duty vehicles after shelter-in-place orders were enacted in response to the COVID-19 pandemic. Emissions from the electricity

sector account for 16 percent of the inventory and have remained at a similar level as in 2019 despite a 44 percent decrease in in-state hydropower generation (due to below average precipitation levels), which was more than compensated for by a 10 percent growth in in-state solar generation and cleaner imported electricity incentivized by California's clean energy policies. California's industrial sector accounts for the second largest source of the state's GHG emissions in 2020, accounting for 23 percent (CARB 2022).

## **2.2 Regulatory Framework**

### **2.2.1 State**

#### **2.2.1.1 Executive Orders S-3-05 and B-30-15**

Executive Order (EO) S-3-05, signed by Governor Arnold Schwarzenegger in 2005, proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce the Sierra Nevada snowpack, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To combat those concerns, the EO established total GHG emission targets for the State. Specifically, emissions are to be reduced to the 2000 level by 2010, the 1990 level by 2020, and to 80 percent below the 1990 level by 2050.

On April 20, 2015, Governor Brown signed EO B-30-15 to establish a California GHG reduction target of 40 percent below 1990 levels by 2030. The Governor's executive order aligns California's GHG reduction targets with those of leading international governments such as the European Union, which adopted the same target in October 2014. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the ultimate goal of reducing emissions 80 percent below 1990 levels by 2050. This is in line with the scientifically established levels needed in the U.S. to limit global warming below 2 degrees Celsius, the warming threshold at which major climate disruptions are projected, such as super droughts and rising sea levels.

#### **2.2.1.2 Assembly Bill 32 Climate Change Scoping Plan and Updates**

In 2006, the California legislature passed Assembly Bill (AB) 32 (Health and Safety Code § 38500 et seq., or AB 32), also known as the Global Warming Solutions Act. AB 32 required CARB to design and implement feasible and cost-effective emission limits, regulations, and other measures, such that statewide GHG emissions are reduced to 1990 levels by 2020 (representing a 25 percent reduction in emissions). Pursuant to AB 32, CARB adopted a Scoping Plan in December 2008, which outlined measures to meet the 2020 GHG reduction goals. California exceeded the target of reducing GHG emissions to 1990 levels by the year 2017.

The Scoping Plan is required by AB 32 to be updated at least every five years. The latest update, the 2017 Scoping Plan Update, addresses the 2030 target established by Senate Bill (SB) 32 as discussed below and establishes a proposed framework of action for California to meet a 40 percent reduction in GHG emissions by 2030 compared to 1990 levels. The key programs that the Scoping Plan Update builds on include increasing the use of renewable energy in the State, the Cap-and-Trade Regulation, the Low Carbon Fuel Standard, and reduction of methane emissions from agricultural and other wastes.

### **2.2.1.3 Senate Bill 32 and Assembly Bill 197 of 2016**

In August 2016, Governor Brown signed SB 32 and AB 197, which serve to extend California's GHG reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include § 38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by EO B-30-15 for 2030, which set the next interim step in the State's continuing efforts to pursue the long-term target expressed in EOs S-3-05 and B-30-15 of 80 percent below 1990 emissions levels by 2050.

### **2.2.1.4 Senate Bill 100 of 2018**

In 2018, SB 100 was signed by Governor Brown, codifying a goal of 60 percent renewable procurement by 2030 and 100 percent by 2045 Renewables Portfolio Standard.

### **2.2.1.5 2022 Building Energy Efficiency Standards for Residential and Nonresidential Buildings**

The Building and Efficiency Standards (Energy Standards) were first adopted and put into effect in 1978 and have been updated periodically in the intervening years. These standards are a unique California asset that have placed the State on the forefront of energy efficiency, sustainability, energy independence and climate change issues. The 2022 California Building Codes include provisions related to energy efficiency to reduce energy consumption and greenhouse gas emissions from buildings. Some of the key energy efficiency components of the codes are:

1. Energy Performance Requirements: The codes specify minimum energy performance standards for the building envelope, lighting, heating and cooling systems, and other components.
2. Lighting Efficiency: The codes require that lighting systems meet minimum efficiency standards, such as the use of energy-efficient light bulbs and fixtures.
3. HVAC Systems: The codes establish requirements for heating, ventilation, and air conditioning (HVAC) systems, including the use of high-efficiency equipment, duct sealing, and controls.
4. Building Envelope: The codes include provisions for insulation, air sealing, glazing, and other building envelope components to reduce energy loss and improve indoor comfort.
5. Renewable Energy: The codes encourage the use of renewable energy systems, such as photovoltaic panels and wind turbines, to reduce dependence on non-renewable energy sources.
6. Commissioning: The codes require the commissioning of building energy systems to ensure that they are installed and operate correctly and efficiently.

Overall, the energy efficiency provisions of the 2022 California Building Codes aim to reduce the energy consumption of buildings, lower energy costs for building owners and occupants, and reduce the environmental impact of the built environment. The 2022 Building Energy Efficiency Standards improve upon the 2019 Energy Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The exact amount by which the 2022 Building Codes are more efficient compared

to the 2019 Building Codes would depend on the specific provisions that have been updated and the specific building being considered. However, in general, the 2022 Building Codes have been updated to include increased requirements for energy efficiency, such as higher insulation and air sealing standards, which are intended to result in more efficient buildings. The 2022 standards are a major step toward meeting Zero Net Energy.

## **2.2.2 Local**

### **2.2.2.1 Bay Area Air Quality Management District**

To provide guidance to local lead agencies on determining significance for GHG emissions in CEQA documents, BAAQMD CEQA Guidelines include guidance on assessing GHGs and climate change impacts as required under CEQA Section 15183.5(b). On April 20, 2022, the Draft Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans (2022) was adopted. This document presents a project-level operational threshold of significance for GHG emissions based on compliance with a Qualified GHG Reduction Strategy or adherence to a suite of BAAQMD performance standards for land uses projects directly related to building design, transportation and consistency with the CEQA Guidelines Section 15183.5(b).

#### **2.2.2.2 Association of Bay Area Governments Final Plan Bay Area 2050**

The Association of Bay Area Governments (ABAG) Plan Bay Area 2050 is the Regional Transportation Plan (RTP) and Sustainable Communities Strategy (SCS) for the San Francisco Bay Area. Plan Bay Area 2050 estimates a 22 percent reduction of automotive GHG emissions by 2035 compared to 2005. The region's applicable GHG per capita emissions target, mandated by CARB, is a 19 percent reduction for 2035, compared to 2005. Plan Bay Area 2050 establishes means of establishing GHG reduction goals through transportation improvements, including a clean vehicle feebate and targeted transportation alternatives. According to ABAG, the San Francisco Bay Area will exceed the mandated GHG reduction target of 19 percent for 2035 by implementing Plan Bay Area.

#### **2.2.2.3 BAAQMD 2017 Clean Air Plan**

The 2017 Clean Air Plan (BAAQMD 2017a) provides a regional strategy with the goal of protecting public health and protecting the climate. The 2017 Clean Air Plan is consistent with the California GHG reduction goals. To protect the climate, the 2017 Clean Air Plan defines a vision for transitioning the region to a "post-carbon economy" without fossil fuel combustion, as needed to achieve ambitious greenhouse gas reduction targets for 2030 and 2050 and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG reduction targets.

The 2017 Clean Air Plan includes numerous control measures designed to reduce GHG emissions from stationary and transportation sources. The plan lays the framework for reducing Bay Area GHG emissions 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050.

#### **2.2.2.4     *The City of San Mateo Climate Action Plan***

The City adopted an updated community-wide Climate Action Plan (CAP) in April 2020, which updates and consolidates the various City's GHG reduction efforts based on the vision of San Mateo residents, businesses, and local government. The CAP provides the framework for San Mateo to reduce its community wide GHG emissions in a manner consistent with state reduction targets and goals for 2030 and 2050. The CAP was prepared consistent with CEQA Guidelines for Plans for the Reduction of Greenhouse Gas Emissions (CCR 15183.5). This allows the 2020 CAP to support (and possibly streamline) environmental review of GHG emissions related to future development projects within San Mateo. The 2020 CAP is a direct update to the 2015 CAP. The 2020 CAP analyzes San Mateo's progress to date in meeting its GHG reduction targets and contains new information to achieve more significant and longer-term GHG reductions.

A CAP is a comprehensive strategy for a community to reduce emissions of GHGs, which, according to scientific consensus, are primarily responsible for causing climate change. The CAP identifies a strategy, reduction measures, and implementation actions the City will use to achieve targets consistent with state recommendations of 4.3 metric tons of CO<sub>2</sub>e (MTCO<sub>2</sub>e) per person by 2030 and 1.2 MTCO<sub>2</sub>e per person by 2050. The City CAP includes five key pieces:

1. An inventory of the annual GHG emissions attributable to San Mateo based on the types of activities occurring within the community and guidance from various protocols and agencies.
2. A forecast of what GHG emissions are likely to look like in 2030 and 2050 based on expected population and economic growth as predicted in the City's General Plan; with the consideration of major CO<sub>2</sub>e emission reduction policies.
3. A reduction target, which identifies goals for reducing GHG emissions by 2030 and 2050.
4. Reduction strategies, which describe the actions the community intends to take to achieve the reduction target. Each strategy identifies the amount of GHGs that will be reduced once the strategy is implemented. The CAP also estimates the benefits of existing programs.
5. An implementation and monitoring program to track progress toward the reduction target and the status of the reduction strategies. A CAP consistency checklist for future development projects is included in the implementation program.

### **2.3            Greenhouse Gas Emissions Impact Assessment**

#### **2.3.1        Thresholds of Significance**

The impact analysis provided below is based on the following CEQA Guidelines Appendix G thresholds of significance. The Project would result in a significant impact to GHG emissions if it would:

- 1)        Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment.
- 2)        Conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases or

The Appendix G thresholds for GHG emissions do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA. With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or other performance-based standards." (14 CCR 15064.4(b)). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change." (14 CCR 15064.4(c)). Section 15064.4(b) provides that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment:

1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4(b)).

In addition, Section 15064.7(c) of the CEQA Guidelines specifies that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7(c)). The CEQA Guidelines also clarify that the effects of GHG emissions are cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis (see CEQA Guidelines Section 15130). As a note, the CEQA Guidelines were amended in response to Senate Bill 97. In particular, the CEQA Guidelines were amended to specify that compliance with a GHG emissions reduction plan renders a cumulative impact insignificant.

Per CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project would comply with an approved plan or mitigation program that provides specific requirements that would avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such plans or programs must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "water quality control plan, air quality attainment or maintenance plan, integrated waste management plan, habitat conservation plan, natural community conservation plans [and] plans or regulations for the reduction of greenhouse gas emissions." Put another way, CEQA Guidelines Section 15064(h)(3) allows a lead agency to make a finding of less than significant for GHG

emissions if a project complies with adopted programs, plans, policies and/or other regulatory strategies to reduce GHG emissions.

The local air quality agency regulating the SFBAAB is the BAAQMD, the regional air pollution control officer for the basin. As previously stated, BAAQMD CEQA Guidelines include guidance on assessing GHGs and climate change impacts as required under CEQA Section 15183.5(b) and establish thresholds of significance for impacts related to GHG emissions. The City has determined, in its discretion, that the BAAQMD recommended GHG significance thresholds are based on substantial evidence to “attribute an appropriate share of GHG reductions necessary to reach statewide reduction goals to new land use development projects in the BAAQMD’s jurisdiction that are evaluated pursuant to CEQA” (BAAQMD 2017b). Therefore, the City uses the BAAQMD CEQA Guidelines to determine the level of impact from the project contributions of GHG emissions.

As previously described, BAAQMD’s Draft Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts from Land Use Projects and Plans presents a project-level operational threshold of significance for GHG emissions based on compliance with a Qualified GHG Reduction Strategy or adherence to a suite of BAAQMD performance standards for land uses projects directly related to building design, transportation and consistency with the CEQA Guidelines Section 15183.5(b). The City CAP is a Qualified GHG Reduction Strategy. The 2020 City CAP is the most recent update after the 2015 CAP and is written to align with the goals of SB 32. The CAP addresses estimate emissions beyond 2020, as informed by the post-2020 GHG reduction targets of SB 32 and EO S-3-05. Specifically, the City set emission reduction goals of 15 percent below 2005 emissions levels by 2020, 4.3 MTCO<sub>2</sub>e per person by 2030, and 1.2 MTCO<sub>2</sub>e per person by 2050. Therefore, Project compliance with the CAP adequately establishes Project compliance with statewide GHG reduction goals for the year 2030 associated with SB 32, and with statewide GHG reduction goals for the years beyond 2030.

### **2.3.2 Methodology**

GHG emissions-related impacts were assessed in accordance with methodologies recommended by the BAAQMD and the City of San Mateo. Where GHG emission quantification was required, emissions were modeled using CalEEMod, version 2022.1.1.13. CalEEMod is a statewide land use emissions computer model designed to quantify potential GHG emissions associated with both construction and operations from a variety of land use projects. Project construction generated GHG emissions were calculated using CalEEMod model defaults for San Mateo County. Operational GHG emissions were based on CalEEMod model defaults for San Mateo County, the site and building square footage identified in the Project Site plans, and traffic trip generation rates identified by David J. Powers and Associates (2023). For the purposes of this analysis, projected operational emissions associated with proposed operations are compared to the existing baseline, which includes a 21,600 square-foot single story office building.

### **2.3.3 Impact Analysis**

Construction-related activities that would generate GHG emissions include worker commute trips, haul trucks carrying supplies and materials to and from the Project Site, and off-road construction equipment (e.g., dozers, loaders, excavators). Table 3-2 illustrates the specific construction generated GHG emissions

that would result from construction of the Project. Once construction is complete, the generation of these GHG emissions would cease.

| <b>Table 3-2. Construction-Related Greenhouse Gas Emissions</b> |                                            |
|-----------------------------------------------------------------|--------------------------------------------|
| <b>Emissions Source</b>                                         | <b>CO<sub>2</sub>e (Metric Tons/ Year)</b> |
| Construction Year 1                                             | 249                                        |
| Construction Year 2                                             | 368                                        |
| <b>Total Construction Emissions</b>                             | <b>617</b>                                 |

Source: CalEEMod version 2022.1.1.13. Refer to Attachment A for Model Data Outputs.

As shown in Table 3-2, Project construction would result in the generation of approximately 617 MTCO<sub>2</sub>e over the course of construction. Once construction is complete, the generation of these GHG emissions would cease. As previously stated, there are no adopted thresholds of significance for construction related GHG emissions. GHG emissions generated by the construction sector have been declining in recent years. For instance, construction equipment engine efficiency has continued to improve year after year. The first federal standards (Tier 1) for new off-road diesel engines were adopted in 1994 for engines over 50 horsepower and were phased in from 1996 to 2000. In 1996, a Statement of Principles pertaining to off-road diesel engines was signed between the USEPA, CARB, and engine makers (including Caterpillar, Cummins, Deere, Detroit Diesel, Deutz, Isuzu, Komatsu, Kubota, Mitsubishi, Navistar, New Holland, Wis-Con, and Yanmar). On August 27, 1998, the USEPA signed the final rule reflecting the provisions of the Statement of Principles. The 1998 regulation introduced Tier 1 standards for equipment under 50 horsepower and increasingly more stringent Tier 2 and Tier 3 standards for all equipment with phase-in schedules from 2000 to 2008. As a result, all off-road, diesel-fueled construction equipment manufactured in 2006 or later has been manufactured to Tier 3 standards. Tier 3 engine standards reduce precursor and subset GHG emissions such as nitrogen oxide by as much as 60 percent. On May 11, 2004, the USEPA signed the final rule introducing Tier 4 emission standards, which were phased in over the period of 2008-2015. The Tier 4 standards require that emissions of nitrogen oxide be further reduced by about 90 percent. All off-road, diesel-fueled construction equipment manufactured in 2015 or later will be manufactured to Tier 4 standards.

Operation of the Project would result in GHG emissions. Projected GHG emissions associated with proposed operations are quantified and compared to the existing baseline, which, as previously stated, includes a 21,600 square-foot office building. Table 3-3 summarizes all the direct and indirect annual GHG emissions associated with the Project.

| <b>Table 3-3. Operational-Related Greenhouse Gas Emissions</b> |                                            |
|----------------------------------------------------------------|--------------------------------------------|
| <b>Emission Source</b>                                         | <b>CO<sub>2</sub>e (Metric Tons/ Year)</b> |
| <b>Proposed Project (Mixed-Use Office/Residential)</b>         |                                            |
| Area Source                                                    | 9                                          |
| Energy                                                         | 198                                        |
| Mobile                                                         | 465                                        |
| Waste                                                          | 35                                         |
| Water                                                          | 18                                         |
| <b>Total</b>                                                   | <b>725</b>                                 |
| <b>Existing Onsite Land Uses (Office Building)</b>             |                                            |
| Area Source                                                    | 0                                          |
| Energy                                                         | 68                                         |
| Mobile                                                         | 215                                        |
| Waste                                                          | 6                                          |
| Water                                                          | 7                                          |
| <b>Total</b>                                                   | <b>296</b>                                 |
| <b>Difference</b>                                              |                                            |
| Area Source                                                    | +9                                         |
| Energy                                                         | +130                                       |
| Mobile                                                         | +250                                       |
| Waste                                                          | +29                                        |
| Water                                                          | +11                                        |
| <b>Total</b>                                                   | <b>+429</b>                                |

Source: CalEEMod version 2022.1.1.13. Refer to Attachment A for Model Data Outputs.

Notes: Emission projections predominately based on CalEEMod model defaults for San Mateo County. Emissions projections account for baseline and Project trip generation rates identified by David J. Powers and Associates (2023).

As shown in Table 3-3, the increase in operational GHG emissions over the existing baseline would be 429 MTCO<sub>2</sub>e per year as a result of the Project.

### **2.3.3.1    *Generation of Greenhouse Gas Emissions Resulting in Conflicts with any Applicable Plan, Policy, or Regulation of an Agency Adopted for the Purpose of Reducing the Emissions of Greenhouse Gases***

#### City of San Mateo Climate Action Plan

The City CAP (2020) is the most recent update to the prior 2015 City CAP. The CAP is a strategic planning document that identifies sources of GHG emissions within the City's boundaries, presents current and future emissions estimates, identifies a GHG reduction target for future years, and presents strategic programs, policies, and projects to reduce emissions from the energy, transportation, land use, water use, and waste sectors. The CAP includes GHG reduction measures in the form of GHG reduction programs, policies, projects, and strategies. The BAAQMD Qualified Greenhouse Gas Emissions Reduction Program criteria, in conjunction with the BAAQMD's CEQA Guidelines (2017b), guided the development of the emissions reduction program developed by the City. All three guidelines comply with the requirements of statewide GHG-reduction targets and achieve the goals of the Scoping Plan.

As previously stated, the 2020 City CAP is written to align with the goals of SB 32, which codified the statewide GHG emission reduction goal established by EO B-30-15 of at least 40 percent below 1990 levels no later than December 31, 2030. Specifically, the City has set a per capita emission rate of 4.3 MTCO<sub>2</sub>e per person by 2030. Therefore, to show consistency with the CAP the Project is compared to the threshold of 4.3 metric tons of CO<sub>2</sub>e per Project service population (Project Population) per year by 2030. This approach is used to identify the emissions level for which a project would not be expected to substantially conflict with existing California legislation adopted to reduce statewide GHG emissions. An advantage of the service population approach is its application to both residential land uses and employment-oriented land uses. The per capita or per service population metrics represent the rates of emissions needed to achieve a fair share of the state's emission reduction mandate. The use of "fair share" in this instance indicates the GHG efficiency level that, if applied statewide or to a defined geographic area, would meet the 2030 emissions targets. The intent of SB 32 is to accommodate population and economic growth in California but to do so in a way that achieves a lower rate of GHG emissions, as evidenced in the statement from CARB's Scoping Plan. If projects can achieve targeted rates of emissions per the sum of residents plus jobs (i.e., service population), California can accommodate expected population growth and achieve economic development objectives, while also abiding by SB 32's emissions target.

The majority of population that would be occupying the Project Site would be residents that live on the Project Site followed by employees that work on the Project Site (Project Service Population). In order to estimate the service population of the Project Site, the following steps are considered:

- The Project proposes 120 residential units and according to the California Department of Finance (2023), households in the City average 2.47 occupants. Thus, 296 Project residents are estimated ( $120 \times 2.47 = 296.4$ ).
- The Project proposes 27,076 square-feet of office space and according to the U.S. Green Building Council (2008), general office uses can be expected to employ one person per 304 square-feet of building space. Thus, 89 Project employees are estimated ( $27,076 \div 304 = 89$ ).

As demonstrated, the Project service population is 385 (296 residents + 89 employees = 385 service population). As shown in Table 3-4, dividing the GHG emissions by the Project service population yields a metric ton per service population ratio of 1.88.

| <b>Table 3-4. Greenhouse Gas Emissions per Service Population</b> |                                                   |                                               |                      |                          |
|-------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------|----------------------|--------------------------|
| <b>Project Emissions</b>                                          | <b>Service Population (Residents + Employees)</b> | <b>Metric Tons of CO<sub>2</sub>e/SP/Year</b> | <b>CAP Threshold</b> | <b>Exceed Threshold?</b> |
| 725                                                               | 385                                               | 1.88                                          | 4.3                  | <b>No</b>                |

Source: CalEEMod version 2022.1.1.13. Refer to Attachment A for Model Data Outputs.

As shown in Table 3-4, the Proposed Project would not surpass the CAP's efficiency-based significance thresholds. As such, the Project would be consistent with the City's CAP.

#### BAAQMD Plan 2017 Clean Air Plan

The 2017 Clean Air Plan (BAAQMD 2017a) provides a regional strategy to protect public health and the climate. The 2017 Clean Air Plan defines a vision for transitioning the region to a post-carbon economy needed to achieve ambitious GHG reduction targets for 2030 and 2050 and provides a regional climate protection strategy that will put the Bay Area on a pathway to achieve those GHG emissions reduction targets. The 2017 Clean Air Plan includes a wide range of control measures designed to reduce emissions of CH<sub>4</sub> and other 'super GHGs' in the near term, and to decrease emissions of CO<sub>2</sub> by reducing fossil-fuel combustion.

The 2017 Clean Air Plan includes a diverse range of control measures designed to decrease GHG emissions. Consistency of the Proposed Project with 2017 Clean Air Plan is demonstrated by assessing whether the Project supports all of the Project-applicable Clean Air Plan control measures for GHG emissions. The GHG-related control strategies of the Clean Air Plan include *Mobile Source Measures*, *Transportation Control Measures* and *Energy and Climate Measures*.

Note, the *Land Use and Local Impact Measures* of the 2017 Clean Air Plan address the exposure of sensitive receptors to toxic air contaminants and is thereby not applicable to this impact discussion of GHG emissions. Additionally, the *Stationary Source Measures* in the Clean Air Plan such as those implemented to control emissions from metal melting facilities, cement kilns, refineries, and glass furnaces are not applicable to the Proposed Project.

#### ***Transportation and Mobile Source Control Measures***

The BAAQMD identifies transportation and mobile source control measures as part of the Clean Air Plan to reduce emissions from these sources. The transportation control measures are designed to reduce emissions from motor vehicles by reducing vehicle trips and vehicle miles traveled (VMT) in addition to vehicle idling and traffic congestion. The Proposed Project is consistent with the Clean Air Plan's

transportation and mobile source control measures in that it is the redevelopment of an existing urban environment. The Project is considered “infill development” as it proposes to redevelop a built-out property and enhance the physical design of the urban environment. Under Public Resources Code (PRC) section 21061.3, an “infill site” is defined as a site that “has been previously developed for qualified urban uses.” In turn, a “qualified urban use” is defined, pursuant to PRC section 21072, as “a residential, commercial, or public institutional, transit or transportation passenger facility, or retail use, or any combination of those uses.” Additionally, the Project Site is located in an “urbanized area,” which is defined under PRC section 21071 as “an incorporated city” that meets the criteria of having a population of at least 100,000 persons.

Pedestrian access to the Project Site would be provided via sidewalks along South Claremont Street and 9<sup>th</sup> Avenue. The Proposed Project would provide convenient accessibility to nearby retail shops, restaurants, markets, and more. These places of commerce and employment are conveniently located for the future residents of the Proposed Project to access via walking, biking, or a short vehicle trip, which will further reduce VMT. Additionally, the Project would include on-site office jobs within an area built with a large number of residential uses, notably to the north, east and south of the Project.

These aspects of the Project would result in the generation of a reduced amount of GHG emissions. According to the USEPA, redevelopments (namely at brownfield sites such as the Project Site) produce 32 to 57 percent less emissions per capita relative to conventional developments (USEPA 2011); this is because the number of daily vehicle trips and daily VMT associated with the redevelopment tend to be lower compared with development on vacant land. As a result, the Proposed Project would not conflict with the identified transportation and mobile source control measures of the Clean Air Plan.

### ***Land Use and Local Impact Measures***

The BAAQMD Clean Air Plan includes *Land Use and Local Impact Measures* to ensure that planned growth is focused in a way that protects the people and environment from exposure of emissions associated with stationary and mobile sources and to promote mixed-use, compact development to reduce motor vehicle travel. The *Land Use and Local Impact Measures* identified by the BAAQMD are not specifically applicable to the Proposed Project as they relate to actions the BAAQMD will take to reduce impacts from goods movement and health risks in affected communities at the plan level. The measures also detail new regulatory actions the BAAQMD will undertake related to land use, including updates to the CEQA Air Quality Guidelines, and indirect source review.

However, the Proposed Project would be a redevelopment infill Project in support of these measures. For instance, the Project can be identified for its “location efficiency.” Location efficiency describes the location of the Project relative to the type of urban landscape its proposed to fit within, such as an “urban area,” “compact infill,” or “suburban center.” The Project Site represents an urban/compact infill location within an area of the City developed with residential and commercial uses. The Project Site is within an active urban center surrounded by many existing offsite office, commercial, and residential buildings. The Project would locate additional residential land uses in close proximity to existing off-site office, commercial, and residential uses. Therefore, the Project would provide future Project residents with potential work opportunities and commercial service options in close proximity to the Site. Additionally, the Project would locate potential employment opportunities for residents already living in the vicinity. The location efficiency

of the Project Site would result in synergistic benefits that would reduce vehicle trips and VMT compared to the statewide average and would result in corresponding reduction of transportation related GHG emissions.

The Project would increase housing density in the vicinity over current conditions. Increased density reduces emissions associated with transportation as it reduces the distance people travel for work or services and provides a foundation for the implementation of other strategies to reduce GHG emissions.

### ***Energy and Climate Control Measures***

The Clean Air Plan also includes Energy and Climate Control Measures, which are designed to reduce ambient concentrations of emissions of CO<sub>2</sub>. Implementation of these measures is intended to promote energy conservation and efficiency in buildings throughout the community, promote renewable forms of energy production, reduce the “urban heat island” effect by increasing reflectivity of roofs and parking lots, promote the planting of (low volatile organic compound-emitting) trees to reduce biogenic emissions, lower air temperatures, provide shade, and absorb air pollutants. The measures include voluntary approaches to reduce the heat-island effect by increasing shade in urban and suburban areas through the planting of trees. The Proposed Project would increase landscaping throughout the Project Site which would help reduce the urban heat-island effect. Additionally, the Project would be constructed consistent with the standards of the 2022 Building and Efficiency Standards, which include provisions related to energy efficiency to reduce energy consumption and GHG emissions from buildings.

The Project is consistent with the 2017 Clean Air Plan. The Proposed Project would conform to the Project-applicable control measures in the Clean Air Plan and would not disrupt or hinder the implementation of any other control measures.

### **ABAG Final Plan Bay Area 2050**

ABAG’s Plan Bay Area is the RTP/SCS for the San Francisco Bay Area. Plan Bay Area establishes GHG emissions goals for automobiles and light-duty trucks, a potent source of GHG emissions attributable to land use development. As previously described, ABAG was tasked by CARB to achieve a 19 percent reduction of passenger car and light truck automotive GHG emissions by 2035 compared to 2005. Plan Bay Area 2050 establishes an overall mechanism to achieve these GHG targets for the Project region consistent with the target date of SB 32. According to ABAG, the San Francisco Bay Area will exceed the mandated GHG reduction target of 19 percent for 2035 by implementing Plan Bay Area.

The RTP/SCS contains thousands of individual transportation projects, including highway improvements, railway electrification, bicycle lanes, new transit hubs, and replacement bridges. These future investments seek to reduce traffic bottlenecks, improve the efficiency of the region’s network, and expand mobility choices. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding. In addition, the RTP/SCS is supported by a combination of transportation and land use strategies that help the region achieve state GHG emission reduction goals and federal Clean Air Act requirements, preserve open space areas, improve public health and roadway safety, support the vital goods movement industry, and use resources more efficiently.

Plan Bay Area 2050's core strategy is "focused growth" in existing communities along the existing transportation network. This strategy allows the best "bang for the buck" in achieving key regional economic, environmental, and equity goals: it builds upon existing community characteristics, efficiently leverages existing infrastructure, and mitigates impacts on areas with less development. Plan Bay Area 2050's Growth Geographies identify a mix of locally identified Priority Development Areas, areas near high quality transit and areas of high opportunity as communities poised to accommodate additional growth. Priority Development Areas are defined as areas generally near existing job centers or frequent transit that are locally identified (i.e., identified by towns, cities or counties) for housing and job growth. Meanwhile, Plan Bay Area 2050 identifies areas outside of the existing urban footprint or in areas that are at a very high risk of wildfire as areas where additional construction should be deprioritized.

The Project Site is located directly adjacent to an area identified as the "San Mateo Downtown Priority Development Area" in Plan Bay Area 2050 (ABAG 2020). Therefore, Plan Bay Area 2050 considers the Project location to be within close proximity to an area serviced by high-quality transit and within communities poised to accommodate additional growth, and therefore encourages urban growth in the Project Area. Furthermore, the Project is proposed within a built environment (infill development). The Project will increase density and land use diversity in the vicinity over current conditions. Increased density, measured in terms of persons, jobs, or building square footage, as well as increased land use diversity, potentially reduces emissions associated with transportation as it reduces the distance people travel for work or services and provides a foundation for the implementation of other strategies such as enhanced transit services. The Project would increase the Site density from a single-story office building to a multiple story mixed-use residential-office building space.

For these reasons, the Project is consistent with Plan Bay Area. Based on the Project's proximity to public transportation, availability of bike storage space and proximity to retail stores, it can be assumed that regional mobile emissions will decrease in line with the goals of Plan Bay Area with implementation of the Proposed Project. Implementing ABAG's RTP/SCS will greatly reduce the regional GHG emissions from transportation, and the Proposed Project will not obstruct the achievement of Plan Bay Area's emission reduction targets.

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## **LIST OF ATTACHMENTS**

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Attachment A – CalEEMod Output File for Greenhouse Gas Emissions

## **ATTACHMENT A**

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CalEEMod Output Files – Greenhouse Gas Emissions

## **PROJECT EMISSIONS MODELING OUTPUTS**

# Project- San Mateo 9th Avenue Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                 |
|-----------------------------|---------------------------------------|
| Project Name                | Project- San Mateo 9th Avenue         |
| Construction Start Date     | 8/1/2023                              |
| Operational Year            | 2024                                  |
| Lead Agency                 | —                                     |
| Land Use Scale              | Project/site                          |
| Analysis Level for Defaults | County                                |
| Windspeed (m/s)             | 4.60                                  |
| Precipitation (days)        | 32.0                                  |
| Location                    | 477 9th Ave, San Mateo, CA 94402, USA |
| County                      | San Mateo                             |
| City                        | San Mateo                             |
| Air District                | Bay Area AQMD                         |
| Air Basin                   | San Francisco Bay Area                |
| TAZ                         | 1239                                  |
| EDFZ                        | 1                                     |
| Electric Utility            | Pacific Gas & Electric Company        |
| Gas Utility                 | Pacific Gas & Electric                |
| App Version                 | 2022.1.1.13                           |

## 1.2. Land Use Types

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

|                              |      |               |      |         |      |   |     |   |
|------------------------------|------|---------------|------|---------|------|---|-----|---|
| Apartments Mid Rise          | 120  | Dwelling Unit | 0.50 | 115,200 | 0.00 | — | 346 | — |
| General Office Building      | 27.0 | 1000sqft      | 0.50 | 27,076  | 0.00 | — | —   | — |
| Unenclosed Parking Structure | 152  | Space         | 1.00 | 60,800  | 0.00 | — | —   | — |
| Parking Lot                  | 14.0 | Space         | 0.30 | 0.00    | 0.00 | — | —   | — |

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector         | #    | Measure Title                                      |
|----------------|------|----------------------------------------------------|
| Transportation | T-4  | Integrate Affordable and Below Market Rate Housing |
| Transportation | T-10 | Provide End-of-Trip Bicycle Facilities             |

## 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.              | 3.39 | 11.6 | 21.0 | 28.1 | 0.06 | 0.89  | 3.91  | 4.55  | 0.82   | 1.36   | 2.12   | —    | 6,192 | 6,192 | 0.64 | 0.57 | 7.52 | 6,385 |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 3.38 | 11.6 | 21.1 | 27.7 | 0.04 | 0.89  | 1.52  | 2.40  | 0.82   | 0.36   | 1.18   | —    | 5,688 | 5,688 | 0.26 | 0.20 | 0.20 | 5,754 |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 1.25 | 4.43 | 7.85 | 10.5 | 0.02 | 0.31  | 0.58  | 0.89  | 0.29   | 0.14   | 0.43   | —    | 2,198 | 2,198 | 0.10 | 0.08 | 1.16 | 2,224 |

|              |      |      |      |      |         |      |      |      |      |      |      |   |     |     |      |      |      |     |
|--------------|------|------|------|------|---------|------|------|------|------|------|------|---|-----|-----|------|------|------|-----|
| Annual (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —   | —   | —    | —    | —    | —   |
| Unmit.       | 0.23 | 0.81 | 1.43 | 1.91 | < 0.005 | 0.06 | 0.11 | 0.16 | 0.05 | 0.03 | 0.08 | — | 364 | 364 | 0.02 | 0.01 | 0.19 | 368 |

## 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) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2023                 | 3.39 | 11.6 | 21.0 | 28.1 | 0.06    | 0.89  | 3.91  | 4.55  | 0.82   | 1.36   | 2.12   | —    | 6,192 | 6,192 | 0.64 | 0.57 | 7.52 | 6,385 |
| 2024                 | 3.22 | 11.4 | 20.1 | 27.5 | 0.04    | 0.81  | 1.52  | 2.33  | 0.75   | 0.36   | 1.11   | —    | 5,722 | 5,722 | 0.25 | 0.20 | 6.88 | 5,794 |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2023                 | 3.38 | 11.6 | 21.1 | 27.7 | 0.04    | 0.89  | 1.52  | 2.40  | 0.82   | 0.36   | 1.18   | —    | 5,688 | 5,688 | 0.26 | 0.20 | 0.20 | 5,754 |
| 2024                 | 3.22 | 11.4 | 20.3 | 27.1 | 0.04    | 0.81  | 1.52  | 2.33  | 0.75   | 0.36   | 1.11   | —    | 5,648 | 5,648 | 0.26 | 0.20 | 0.18 | 5,713 |
| Average Daily        | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2023                 | 0.90 | 2.64 | 5.96 | 7.29 | 0.01    | 0.25  | 0.43  | 0.68  | 0.23   | 0.11   | 0.34   | —    | 1,488 | 1,488 | 0.07 | 0.05 | 0.76 | 1,506 |
| 2024                 | 1.25 | 4.43 | 7.85 | 10.5 | 0.02    | 0.31  | 0.58  | 0.89  | 0.29   | 0.14   | 0.43   | —    | 2,198 | 2,198 | 0.10 | 0.08 | 1.16 | 2,224 |
| Annual               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| 2023                 | 0.16 | 0.48 | 1.09 | 1.33 | < 0.005 | 0.05  | 0.08  | 0.12  | 0.04   | 0.02   | 0.06   | —    | 246   | 246   | 0.01 | 0.01 | 0.13 | 249   |
| 2024                 | 0.23 | 0.81 | 1.43 | 1.91 | < 0.005 | 0.06  | 0.11  | 0.16  | 0.05   | 0.03   | 0.08   | —    | 364   | 364   | 0.02 | 0.01 | 0.19 | 368   |

## 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) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023                 | 3.39 | 11.6 | 21.0 | 28.1 | 0.06    | 0.89 | 3.91 | 4.55 | 0.82 | 1.36 | 2.12 | — | 6,192 | 6,192 | 0.64 | 0.57 | 7.52 | 6,385 |
| 2024                 | 3.22 | 11.4 | 20.1 | 27.5 | 0.04    | 0.81 | 1.52 | 2.33 | 0.75 | 0.36 | 1.11 | — | 5,722 | 5,722 | 0.25 | 0.20 | 6.88 | 5,794 |
| Daily - Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023                 | 3.38 | 11.6 | 21.1 | 27.7 | 0.04    | 0.89 | 1.52 | 2.40 | 0.82 | 0.36 | 1.18 | — | 5,688 | 5,688 | 0.26 | 0.20 | 0.20 | 5,754 |
| 2024                 | 3.22 | 11.4 | 20.3 | 27.1 | 0.04    | 0.81 | 1.52 | 2.33 | 0.75 | 0.36 | 1.11 | — | 5,648 | 5,648 | 0.26 | 0.20 | 0.18 | 5,713 |
| Average Daily        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023                 | 0.90 | 2.64 | 5.96 | 7.29 | 0.01    | 0.25 | 0.43 | 0.68 | 0.23 | 0.11 | 0.34 | — | 1,488 | 1,488 | 0.07 | 0.05 | 0.76 | 1,506 |
| 2024                 | 1.25 | 4.43 | 7.85 | 10.5 | 0.02    | 0.31 | 0.58 | 0.89 | 0.29 | 0.14 | 0.43 | — | 2,198 | 2,198 | 0.10 | 0.08 | 1.16 | 2,224 |
| Annual               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —    | —    | —     |
| 2023                 | 0.16 | 0.48 | 1.09 | 1.33 | < 0.005 | 0.05 | 0.08 | 0.12 | 0.04 | 0.02 | 0.06 | — | 246   | 246   | 0.01 | 0.01 | 0.13 | 249   |
| 2024                 | 0.23 | 0.81 | 1.43 | 1.91 | < 0.005 | 0.06 | 0.11 | 0.16 | 0.05 | 0.03 | 0.08 | — | 364   | 364   | 0.02 | 0.01 | 0.19 | 368   |

## 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.              | 3.06 | 6.34 | 2.70 | 22.8 | 0.04 | 0.16  | 1.05  | 1.20  | 0.16   | 0.18   | 0.34   | 78.9 | 5,757 | 5,836 | 8.25   | 0.17 | 11.9 | 6,103 |
| Mit.                | 3.01 | 6.29 | 2.67 | 22.4 | 0.04 | 0.16  | 1.01  | 1.17  | 0.16   | 0.18   | 0.33   | 78.9 | 5,656 | 5,735 | 8.24   | 0.16 | 11.5 | 6,001 |
| % Reduced           | 2%   | 1%   | 1%   | 2%   | —    | —     | 3%    | 3%    | —      | 3%     | 2%     | —    | 2%    | 2%    | < 0.5% | 2%   | 3%   | 2%    |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —      | —    | —    | —     |

|                     |      |      |      |      |      |      |      |      |      |      |      |      |       |       |        |      |      |       |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|--------|------|------|-------|
| Unmit.              | 1.70 | 5.06 | 2.78 | 12.2 | 0.04 | 0.15 | 1.05 | 1.19 | 0.15 | 0.18 | 0.33 | 78.9 | 5,589 | 5,668 | 8.26   | 0.18 | 1.18 | 5,928 |
| Mit.                | 1.65 | 5.02 | 2.74 | 11.8 | 0.04 | 0.15 | 1.01 | 1.16 | 0.15 | 0.18 | 0.32 | 78.9 | 5,493 | 5,572 | 8.26   | 0.17 | 1.17 | 5,831 |
| % Reduced           | 3%   | 1%   | 1%   | 3%   | —    | —    | 3%   | 3%   | —    | 3%   | 2%   | —    | 2%    | 2%    | < 0.5% | 2%   | 1%   | 2%    |
| Average Daily (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —      | —    | —    | —     |
| Unmit.              | 2.20 | 5.59 | 1.61 | 16.4 | 0.03 | 0.06 | 1.05 | 1.11 | 0.06 | 0.18 | 0.24 | 78.9 | 4,146 | 4,225 | 8.23   | 0.17 | 5.65 | 4,487 |
| Mit.                | 2.15 | 5.54 | 1.57 | 16.0 | 0.03 | 0.06 | 1.01 | 1.07 | 0.06 | 0.18 | 0.23 | 78.9 | 4,050 | 4,129 | 8.22   | 0.17 | 5.49 | 4,389 |
| % Reduced           | 2%   | 1%   | 2%   | 2%   | —    | —    | 3%   | 3%   | —    | 3%   | 3%   | —    | 2%    | 2%    | < 0.5% | 2%   | 3%   | 2%    |
| Annual (Max)        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     | —     | —      | —    | —    | —     |
| Unmit.              | 0.40 | 1.02 | 0.29 | 2.99 | 0.01 | 0.01 | 0.19 | 0.20 | 0.01 | 0.03 | 0.04 | 13.1 | 686   | 700   | 1.36   | 0.03 | 0.94 | 743   |
| Mit.                | 0.39 | 1.01 | 0.29 | 2.93 | 0.01 | 0.01 | 0.18 | 0.20 | 0.01 | 0.03 | 0.04 | 13.1 | 671   | 684   | 1.36   | 0.03 | 0.91 | 727   |
| % Reduced           | 2%   | 1%   | 2%   | 2%   | 3%   | 1%   | 3%   | 3%   | 1%   | 3%   | 3%   | —    | 2%    | 2%    | < 0.5% | 2%   | 3%   | 2%    |

## 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              | 1.53 | 1.42 | 0.98 | 11.4 | 0.03    | 0.02  | 1.05  | 1.06  | 0.02   | 0.18   | 0.20   | —    | 2,997 | 2,997 | 0.12 | 0.11    | 11.0 | 3,042 |
| Area                | 1.47 | 4.90 | 1.28 | 11.1 | 0.01    | 0.10  | —     | 0.10  | 0.11   | —      | 0.11   | 0.00 | 1,537 | 1,537 | 0.03 | < 0.005 | —    | 1,539 |
| Energy              | 0.05 | 0.03 | 0.44 | 0.26 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 1,189 | 1,189 | 0.15 | 0.01    | —    | 1,197 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 17.5 | 33.1  | 50.7  | 1.80 | 0.04    | —    | 109   |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 61.4 | 0.00  | 61.4  | 6.14 | 0.00    | —    | 215   |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | 0.89 | 0.89  |

|                     |      |         |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|---------------------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Total               | 3.06 | 6.34    | 2.70 | 22.8 | 0.04    | 0.16    | 1.05 | 1.20    | 0.16    | 0.18 | 0.34    | 78.9 | 5,757 | 5,836 | 8.25    | 0.17    | 11.9 | 6,103 |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.51 | 1.39    | 1.15 | 11.4 | 0.03    | 0.02    | 1.05 | 1.06    | 0.02    | 0.18 | 0.20    | —    | 2,863 | 2,863 | 0.14    | 0.12    | 0.29 | 2,902 |
| Area                | 0.14 | 3.65    | 1.18 | 0.50 | 0.01    | 0.10    | —    | 0.10    | 0.10    | —    | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | —    | 1,505 |
| Energy              | 0.05 | 0.03    | 0.44 | 0.26 | < 0.005 | 0.03    | —    | 0.03    | 0.03    | —    | 0.03    | —    | 1,189 | 1,189 | 0.15    | 0.01    | —    | 1,197 |
| Water               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 17.5 | 33.1  | 50.7  | 1.80    | 0.04    | —    | 109   |
| Waste               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 61.4 | 0.00  | 61.4  | 6.14    | 0.00    | —    | 215   |
| Refrig.             | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.89 | 0.89  |
| Total               | 1.70 | 5.06    | 2.78 | 12.2 | 0.04    | 0.15    | 1.05 | 1.19    | 0.15    | 0.18 | 0.33    | 78.9 | 5,589 | 5,668 | 8.26    | 0.18    | 1.18 | 5,928 |
| Average Daily       | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.48 | 1.37    | 1.09 | 10.9 | 0.03    | 0.02    | 1.05 | 1.06    | 0.02    | 0.18 | 0.20    | —    | 2,870 | 2,870 | 0.13    | 0.11    | 4.76 | 2,912 |
| Area                | 0.66 | 4.20    | 0.08 | 5.24 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | 0.00 | 53.8  | 53.8  | < 0.005 | < 0.005 | —    | 53.9  |
| Energy              | 0.05 | 0.03    | 0.44 | 0.26 | < 0.005 | 0.03    | —    | 0.03    | 0.03    | —    | 0.03    | —    | 1,189 | 1,189 | 0.15    | 0.01    | —    | 1,197 |
| Water               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 17.5 | 33.1  | 50.7  | 1.80    | 0.04    | —    | 109   |
| Waste               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 61.4 | 0.00  | 61.4  | 6.14    | 0.00    | —    | 215   |
| Refrig.             | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.89 | 0.89  |
| Total               | 2.20 | 5.59    | 1.61 | 16.4 | 0.03    | 0.06    | 1.05 | 1.11    | 0.06    | 0.18 | 0.24    | 78.9 | 4,146 | 4,225 | 8.23    | 0.17    | 5.65 | 4,487 |
| Annual              | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 0.27 | 0.25    | 0.20 | 1.99 | 0.01    | < 0.005 | 0.19 | 0.19    | < 0.005 | 0.03 | 0.04    | —    | 475   | 475   | 0.02    | 0.02    | 0.79 | 482   |
| Area                | 0.12 | 0.77    | 0.01 | 0.96 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | 0.00 | 8.91  | 8.91  | < 0.005 | < 0.005 | —    | 8.92  |
| Energy              | 0.01 | < 0.005 | 0.08 | 0.05 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 197   | 197   | 0.03    | < 0.005 | —    | 198   |
| Water               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 2.90 | 5.48  | 8.39  | 0.30    | 0.01    | —    | 18.0  |
| Waste               | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 10.2 | 0.00  | 10.2  | 1.02    | 0.00    | —    | 35.6  |
| Refrig.             | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.15 | 0.15  |
| Total               | 0.40 | 1.02    | 0.29 | 2.99 | 0.01    | 0.01    | 0.19 | 0.20    | 0.01    | 0.03 | 0.04    | 13.1 | 686   | 700   | 1.36    | 0.03    | 0.94 | 743   |

## 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              | 1.48 | 1.37 | 0.94 | 11.0 | 0.03    | 0.02  | 1.01  | 1.03  | 0.02   | 0.18   | 0.19   | —    | 2,896 | 2,896 | 0.12    | 0.10    | 10.6 | 2,940 |
| Area                | 1.47 | 4.90 | 1.28 | 11.1 | 0.01    | 0.10  | —     | 0.10  | 0.11   | —      | 0.11   | 0.00 | 1,537 | 1,537 | 0.03    | < 0.005 | —    | 1,539 |
| Energy              | 0.05 | 0.03 | 0.44 | 0.26 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 1,189 | 1,189 | 0.15    | 0.01    | —    | 1,197 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 17.5 | 33.1  | 50.7  | 1.80    | 0.04    | —    | 109   |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 61.4 | 0.00  | 61.4  | 6.14    | 0.00    | —    | 215   |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | 0.89 | 0.89  |
| Total               | 3.01 | 6.29 | 2.67 | 22.4 | 0.04    | 0.16  | 1.01  | 1.17  | 0.16   | 0.18   | 0.33   | 78.9 | 5,656 | 5,735 | 8.24    | 0.16    | 11.5 | 6,001 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.46 | 1.34 | 1.12 | 11.0 | 0.03    | 0.02  | 1.01  | 1.03  | 0.02   | 0.18   | 0.19   | —    | 2,767 | 2,767 | 0.13    | 0.11    | 0.28 | 2,804 |
| Area                | 0.14 | 3.65 | 1.18 | 0.50 | 0.01    | 0.10  | —     | 0.10  | 0.10   | —      | 0.10   | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | —    | 1,505 |
| Energy              | 0.05 | 0.03 | 0.44 | 0.26 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 1,189 | 1,189 | 0.15    | 0.01    | —    | 1,197 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 17.5 | 33.1  | 50.7  | 1.80    | 0.04    | —    | 109   |
| Waste               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 61.4 | 0.00  | 61.4  | 6.14    | 0.00    | —    | 215   |
| Refrig.             | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | 0.89 | 0.89  |
| Total               | 1.65 | 5.02 | 2.74 | 11.8 | 0.04    | 0.15  | 1.01  | 1.16  | 0.15   | 0.18   | 0.32   | 78.9 | 5,493 | 5,572 | 8.26    | 0.17    | 1.17 | 5,831 |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 1.44 | 1.32 | 1.05 | 10.5 | 0.03    | 0.02  | 1.01  | 1.03  | 0.02   | 0.18   | 0.19   | —    | 2,774 | 2,774 | 0.13    | 0.11    | 4.60 | 2,814 |
| Area                | 0.66 | 4.20 | 0.08 | 5.24 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | 0.00 | 53.8  | 53.8  | < 0.005 | < 0.005 | —    | 53.9  |
| Energy              | 0.05 | 0.03 | 0.44 | 0.26 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 1,189 | 1,189 | 0.15    | 0.01    | —    | 1,197 |
| Water               | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | 17.5 | 33.1  | 50.7  | 1.80    | 0.04    | —    | 109   |

|         |      |         |      |      |         |         |      |         |         |      |         |      |       |       |         |         |      |       |
|---------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|
| Waste   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 61.4 | 0.00  | 61.4  | 6.14    | 0.00    | —    | 215   |
| Refrig. | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.89 | 0.89  |
| Total   | 2.15 | 5.54    | 1.57 | 16.0 | 0.03    | 0.06    | 1.01 | 1.07    | 0.06    | 0.18 | 0.23    | 78.9 | 4,050 | 4,129 | 8.22    | 0.17    | 5.49 | 4,389 |
| Annual  | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile  | 0.26 | 0.24    | 0.19 | 1.92 | < 0.005 | < 0.005 | 0.18 | 0.19    | < 0.005 | 0.03 | 0.04    | —    | 459   | 459   | 0.02    | 0.02    | 0.76 | 466   |
| Area    | 0.12 | 0.77    | 0.01 | 0.96 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | 0.00 | 8.91  | 8.91  | < 0.005 | < 0.005 | —    | 8.92  |
| Energy  | 0.01 | < 0.005 | 0.08 | 0.05 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 197   | 197   | 0.03    | < 0.005 | —    | 198   |
| Water   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 2.90 | 5.48  | 8.39  | 0.30    | 0.01    | —    | 18.0  |
| Waste   | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | 10.2 | 0.00  | 10.2  | 1.02    | 0.00    | —    | 35.6  |
| Refrig. | —    | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.15 | 0.15  |
| Total   | 0.39 | 1.01    | 0.29 | 2.93 | 0.01    | 0.01    | 0.18 | 0.20    | 0.01    | 0.03 | 0.04    | 13.1 | 671   | 684   | 1.36    | 0.03    | 0.91 | 727   |

### 3. Construction Emissions Details

#### 3.1. Demolition (2023) - 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  | 2.07 | 1.74 | 17.0 | 16.9 | 0.02 | 0.76  | —     | 0.76  | 0.70   | —      | 0.70   | —    | 2,494 | 2,494 | 0.10 | 0.02 | —    | 2,502 |
| Demolition          | —    | —    | —    | —    | —    | —     | 0.37  | 0.37  | —      | 0.06   | 0.06   | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 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    | 0.10    | 0.93    | 0.93    | < 0.005 | 0.04    | —       | 0.04    | 0.04    | —       | 0.04    | — | 137  | 137  | 0.01    | < 0.005 | —       | 137  |
| 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 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | 0.02    | 0.02    | 0.17    | 0.17    | < 0.005 | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | — | 22.6 | 22.6 | < 0.005 | < 0.005 | —       | 22.7 |
| Demolition          | —       | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —       | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.04    | 0.04    | 0.03    | 0.46    | 0.00    | 0.00    | 0.10    | 0.10    | 0.00    | 0.02    | 0.02    | — | 108  | 108  | < 0.005 | < 0.005 | 0.44    | 109  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.09    | 0.01    | 0.84    | 0.52    | 0.01    | 0.01    | 0.12    | 0.12    | 0.01    | 0.03    | 0.04    | — | 512  | 512  | 0.08    | 0.08    | 0.99    | 539  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| 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 | — | 5.59 | 5.59 | < 0.005 | < 0.005 | 0.01    | 5.67 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.01    | < 0.005 | 0.05    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 28.0 | 28.0 | < 0.005 | < 0.005 | 0.02    | 29.5 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.94 |

|         |         |         |      |      |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 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 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.64 | 4.64 | < 0.005 | < 0.005 | < 0.005 | 4.89 |

### 3.2. Demolition (2023) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —       | —     | —       | —       | —      | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 2.07 | 1.74 | 17.0 | 16.9 | 0.02    | 0.76  | —       | 0.76    | 0.70   | —       | 0.70    | —    | 2,494 | 2,494 | 0.10    | 0.02    | —    | 2,502 |
| Demolition                | —    | —    | —    | —    | —       | —     | 0.37    | 0.37    | —      | 0.06    | 0.06    | —    | —     | —     | —       | —       | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —     | —       | —       | —      | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Average<br>Daily          | —    | —    | —    | —    | —       | —     | —       | —       | —      | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 0.11 | 0.10 | 0.93 | 0.93 | < 0.005 | 0.04  | —       | 0.04    | 0.04   | —       | 0.04    | —    | 137   | 137   | 0.01    | < 0.005 | —    | 137   |
| Demolition                | —    | —    | —    | —    | —       | —     | 0.02    | 0.02    | —      | < 0.005 | < 0.005 | —    | —     | —     | —       | —       | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                    | —    | —    | —    | —    | —       | —     | —       | —       | —      | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road<br>Equipment     | 0.02 | 0.02 | 0.17 | 0.17 | < 0.005 | 0.01  | —       | 0.01    | 0.01   | —       | 0.01    | —    | 22.6  | 22.6  | < 0.005 | < 0.005 | —    | 22.7  |
| Demolition                | —    | —    | —    | —    | —       | —     | < 0.005 | < 0.005 | —      | < 0.005 | < 0.005 | —    | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.04    | 0.04    | 0.03    | 0.46    | 0.00    | 0.00    | 0.10    | 0.10    | 0.00    | 0.02    | 0.02    | — | 108  | 108  | < 0.005 | < 0.005 | 0.44    | 109  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.09    | 0.01    | 0.84    | 0.52    | 0.01    | 0.01    | 0.12    | 0.12    | 0.01    | 0.03    | 0.04    | — | 512  | 512  | 0.08    | 0.08    | 0.99    | 539  |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| 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 | — | 5.59 | 5.59 | < 0.005 | < 0.005 | 0.01    | 5.67 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.01    | < 0.005 | 0.05    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 28.0 | 28.0 | < 0.005 | < 0.005 | 0.02    | 29.5 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.94 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 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    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.64 | 4.64 | < 0.005 | < 0.005 | < 0.005 | 4.89 |

### 3.3. Site Preparation (2023) - 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          | 1.63    | 1.37    | 13.7 | 11.6 | 0.03    | 0.60    | —       | 0.60    | 0.55    | —       | 0.55    | — | 2,716 | 2,716 | 0.11    | 0.02    | —    | 2,725 |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | 0.62    | 0.62    | —       | 0.07    | 0.07    | — | —     | —     | —       | —       | —    | —     |
| Demolition                  | —       | —       | —    | —    | —       | —       | 2.45    | 2.45    | —       | 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  |
| Daily, Winter (Max)         | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.01    | 0.01    | 0.11 | 0.10 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 22.3  | 22.3  | < 0.005 | < 0.005 | —    | 22.4  |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Annual                      | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 3.70  | 3.70  | < 0.005 | < 0.005 | —    | 3.71  |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| Demolition                  | —       | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.02    | 0.02    | 0.02    | 0.28    | 0.00    | 0.00    | 0.06    | 0.06    | 0.00    | 0.01    | 0.01    | — | 64.6  | 64.6  | < 0.005 | < 0.005 | 0.26    | 65.6  |
| 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             | 0.63    | 0.10    | 5.57    | 3.49    | 0.04    | 0.04    | 0.77    | 0.81    | 0.04    | 0.21    | 0.25    | — | 3,412 | 3,412 | 0.53    | 0.54    | 6.57    | 3,594 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.50  | 0.50  | < 0.005 | < 0.005 | < 0.005 | 0.51  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | 0.01    | < 0.005 | 0.05    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 28.0  | 28.0  | < 0.005 | < 0.005 | 0.02    | 29.5  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.08  | 0.08  | < 0.005 | < 0.005 | < 0.005 | 0.08  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.64  | 4.64  | < 0.005 | < 0.005 | < 0.005 | 4.89  |

### 3.4. Site Preparation (2023) - Mitigated

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

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

|                             |         |         |      |      |         |         |         |         |         |         |         |   |       |       |         |         |      |       |
|-----------------------------|---------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment          | 1.63    | 1.37    | 13.7 | 11.6 | 0.03    | 0.60    | —       | 0.60    | 0.55    | —       | 0.55    | — | 2,716 | 2,716 | 0.11    | 0.02    | —    | 2,725 |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | 0.62    | 0.62    | —       | 0.07    | 0.07    | — | —     | —     | —       | —       | —    | —     |
| Demolition                  | —       | —       | —    | —    | —       | —       | 2.45    | 2.45    | —       | 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  |
| Daily, Winter (Max)         | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.01    | 0.01    | 0.11 | 0.10 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 22.3  | 22.3  | < 0.005 | < 0.005 | —    | 22.4  |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Annual                      | —       | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 3.70  | 3.70  | < 0.005 | < 0.005 | —    | 3.71  |
| Dust From Material Movement | —       | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| Demolition                  | —       | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.02    | 0.02    | 0.02    | 0.28    | 0.00    | 0.00    | 0.06    | 0.06    | 0.00    | 0.01    | 0.01    | — | 64.6  | 64.6  | < 0.005 | < 0.005 | 0.26    | 65.6  |
| 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             | 0.63    | 0.10    | 5.57    | 3.49    | 0.04    | 0.04    | 0.77    | 0.81    | 0.04    | 0.21    | 0.25    | — | 3,412 | 3,412 | 0.53    | 0.54    | 6.57    | 3,594 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.50  | 0.50  | < 0.005 | < 0.005 | < 0.005 | 0.51  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | 0.01    | < 0.005 | 0.05    | 0.03    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 28.0  | 28.0  | < 0.005 | < 0.005 | 0.02    | 29.5  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.08  | 0.08  | < 0.005 | < 0.005 | < 0.005 | 0.08  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.64  | 4.64  | < 0.005 | < 0.005 | < 0.005 | 4.89  |

### 3.5. Grading (2023) - 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          | 2.12 | 1.78 | 17.5 | 16.3 | 0.02    | 0.83    | —    | 0.83    | 0.77    | —       | 0.77    | — | 2,453 | 2,453 | 0.10    | 0.02    | —    | 2,462 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 2.76 | 2.76    | —       | 1.34    | 1.34    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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          | 0.03 | 0.03 | 0.29 | 0.27 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 40.3  | 40.3  | < 0.005 | < 0.005 | —    | 40.5  |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.05 | 0.05    | —       | 0.02    | 0.02    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.01 | 0.01 | 0.05 | 0.05 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 6.68  | 6.68  | < 0.005 | < 0.005 | —    | 6.70  |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 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 | 0.37 | 0.00    | 0.00    | 0.08 | 0.08    | 0.00    | 0.02    | 0.02    | — | 86.1  | 86.1  | < 0.005 | < 0.005 | 0.35 | 87.4  |

|                           |         |         |         |         |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------------|---------|---------|---------|---------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| 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 |
| Daily,<br>Winter<br>(Max) | —       | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average<br>Daily          | —       | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                    | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.34 | 1.34 | < 0.005 | < 0.005 | < 0.005 | 1.36 |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 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 | — | 0.22 | 0.22 | < 0.005 | < 0.005 | < 0.005 | 0.23 |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 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 (2023) - 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,<br>Summer<br>(Max)            | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment                | 2.12 | 1.78 | 17.5 | 16.3 | 0.02 | 0.83  | —     | 0.83  | 0.77   | —      | 0.77   | —    | 2,453 | 2,453 | 0.10 | 0.02 | —    | 2,462 |
| Dust<br>From<br>Material<br>Movement | —    | —    | —    | —    | —    | —     | 2.76  | 2.76  | —      | 1.34   | 1.34   | —    | —     | —     | —    | —    | —    | —     |
| Onsite<br>truck                      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 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          | 0.03 | 0.03 | 0.29 | 0.27 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 40.3 | 40.3 | < 0.005 | < 0.005 | —    | 40.5 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.05 | 0.05    | —       | 0.02    | 0.02    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual                      | —    | —    | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.01 | 0.01 | 0.05 | 0.05 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 6.68 | 6.68 | < 0.005 | < 0.005 | —    | 6.70 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 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 | 0.37 | 0.00    | 0.00    | 0.08 | 0.08    | 0.00    | 0.02    | 0.02    | — | 86.1 | 86.1 | < 0.005 | < 0.005 | 0.35 | 87.4 |
| 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 |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| 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 | — | 1.34 | 1.34 | < 0.005 | < 0.005 | < 0.005 | 1.36 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 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 | — | 0.22 | 0.22 | < 0.005 | < 0.005 | < 0.005 | 0.23 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 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 (2023) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 1.66 | 1.38 | 11.7 | 12.0 | 0.02    | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,201 | 2,201 | 0.09 | 0.02    | —    | 2,209 |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 1.66 | 1.38 | 11.7 | 12.0 | 0.02    | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,201 | 2,201 | 0.09 | 0.02    | —    | 2,209 |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily          | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 0.36 | 0.30 | 2.52 | 2.59 | < 0.005 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 474   | 474   | 0.02 | < 0.005 | —    | 475   |

|                     |         |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 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    | 0.46 | 0.47 | < 0.005 | 0.02    | —    | 0.02 | 0.02    | —       | 0.02    | — | 78.4  | 78.4  | < 0.005 | < 0.005 | —    | 78.7  |
| 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) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.38    | 0.37    | 0.29 | 4.48 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23    | 0.23    | — | 1,038 | 1,038 | 0.02    | 0.04    | 4.20 | 1,055 |
| Vendor              | 0.12    | 0.03    | 1.26 | 0.73 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05    | 0.06    | — | 810   | 810   | 0.08    | 0.12    | 1.96 | 849   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.38    | 0.37    | 0.37 | 4.14 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23    | 0.23    | — | 981   | 981   | 0.02    | 0.04    | 0.11 | 994   |
| Vendor              | 0.12    | 0.03    | 1.32 | 0.74 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05    | 0.06    | — | 810   | 810   | 0.08    | 0.12    | 0.05 | 847   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08    | 0.08    | 0.07 | 0.86 | 0.00    | 0.00    | 0.21 | 0.21 | 0.00    | 0.05    | 0.05    | — | 212   | 212   | 0.01    | 0.01    | 0.39 | 215   |
| Vendor              | 0.03    | 0.01    | 0.28 | 0.16 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | — | 174   | 174   | 0.02    | 0.02    | 0.18 | 182   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 35.1  | 35.1  | < 0.005 | < 0.005 | 0.06 | 35.6  |
| Vendor              | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 28.9  | 28.9  | < 0.005 | < 0.005 | 0.03 | 30.2  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 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 (2023) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.66 | 1.38 | 11.7 | 12.0 | 0.02    | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,201 | 2,201 | 0.09    | 0.02    | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 1.66 | 1.38 | 11.7 | 12.0 | 0.02    | 0.50  | —     | 0.50  | 0.46   | —      | 0.46   | —    | 2,201 | 2,201 | 0.09    | 0.02    | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 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 | 2.52 | 2.59 | < 0.005 | 0.11  | —     | 0.11  | 0.10   | —      | 0.10   | —    | 474   | 474   | 0.02    | < 0.005 | —    | 475   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 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 | 0.46 | 0.47 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 78.4  | 78.4  | < 0.005 | < 0.005 | —    | 78.7  |
| 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) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.38    | 0.37    | 0.29 | 4.48 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23    | 0.23    | — | 1,038 | 1,038 | 0.02    | 0.04    | 4.20 | 1,055 |
| Vendor              | 0.12    | 0.03    | 1.26 | 0.73 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05    | 0.06    | — | 810   | 810   | 0.08    | 0.12    | 1.96 | 849   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.38    | 0.37    | 0.37 | 4.14 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23    | 0.23    | — | 981   | 981   | 0.02    | 0.04    | 0.11 | 994   |
| Vendor              | 0.12    | 0.03    | 1.32 | 0.74 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05    | 0.06    | — | 810   | 810   | 0.08    | 0.12    | 0.05 | 847   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08    | 0.08    | 0.07 | 0.86 | 0.00    | 0.00    | 0.21 | 0.21 | 0.00    | 0.05    | 0.05    | — | 212   | 212   | 0.01    | 0.01    | 0.39 | 215   |
| Vendor              | 0.03    | 0.01    | 0.28 | 0.16 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | — | 174   | 174   | 0.02    | 0.02    | 0.18 | 182   |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 35.1  | 35.1  | < 0.005 | < 0.005 | 0.06 | 35.6  |
| Vendor              | < 0.005 | < 0.005 | 0.05 | 0.03 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 28.9  | 28.9  | < 0.005 | < 0.005 | 0.03 | 30.2  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 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 (2024) - 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  | 1.58 | 1.32 | 11.2 | 11.9 | 0.02    | 0.46 | —    | 0.46 | 0.42 | —    | 0.42 | — | 2,201 | 2,201 | 0.09 | 0.02    | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 1.58 | 1.32 | 11.2 | 11.9 | 0.02    | 0.46 | —    | 0.46 | 0.42 | —    | 0.42 | — | 2,201 | 2,201 | 0.09 | 0.02    | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.61 | 0.51 | 4.38 | 4.65 | 0.01    | 0.18 | —    | 0.18 | 0.16 | —    | 0.16 | — | 857   | 857   | 0.03 | 0.01    | —    | 860   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 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 | 0.80 | 0.85 | < 0.005 | 0.03 | —    | 0.03 | 0.03 | —    | 0.03 | — | 142   | 142   | 0.01 | < 0.005 | —    | 142   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker              | 0.35 | 0.32 | 0.26 | 4.10 | 0.00    | 0.00 | 1.00 | 1.00 | 0.00 | 0.23 | 0.23 | — | 1,016 | 1,016 | 0.02 | 0.04    | 3.71 | 1,031 |
| Vendor              | 0.12 | 0.03 | 1.19 | 0.71 | 0.01    | 0.01 | 0.20 | 0.21 | 0.01 | 0.05 | 0.06 | — | 798   | 798   | 0.08 | 0.12    | 1.96 | 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker              | 0.35 | 0.31 | 0.33 | 3.79 | 0.00    | 0.00 | 1.00 | 1.00 | 0.00 | 0.23 | 0.23 | — | 959   | 959   | 0.02 | 0.04    | 0.10 | 972   |

|               |      |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.11 | 0.03    | 1.25 | 0.72 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05    | 0.06    | — | 798  | 798  | 0.08    | 0.12    | 0.05 | 835  |
| Hauling       | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.14 | 0.12    | 0.11 | 1.43 | 0.00    | 0.00    | 0.38 | 0.38 | 0.00    | 0.09    | 0.09    | — | 375  | 375  | 0.01    | 0.02    | 0.63 | 380  |
| Vendor        | 0.04 | 0.01    | 0.48 | 0.28 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 311  | 311  | 0.03    | 0.05    | 0.33 | 325  |
| Hauling       | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual        | —    | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.02 | 0.02    | 0.02 | 0.26 | 0.00    | 0.00    | 0.07 | 0.07 | 0.00    | 0.02    | 0.02    | — | 62.1 | 62.1 | < 0.005 | < 0.005 | 0.10 | 62.9 |
| Vendor        | 0.01 | < 0.005 | 0.09 | 0.05 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 51.5 | 51.5 | 0.01    | 0.01    | 0.05 | 53.9 |
| Hauling       | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 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 (2024) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.58 | 1.32 | 11.2 | 11.9 | 0.02 | 0.46  | —     | 0.46  | 0.42   | —      | 0.42   | —    | 2,201 | 2,201 | 0.09 | 0.02 | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.58 | 1.32 | 11.2 | 11.9 | 0.02 | 0.46  | —     | 0.46  | 0.42   | —      | 0.42   | —    | 2,201 | 2,201 | 0.09 | 0.02 | —    | 2,209 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

|                     |      |      |      |      |         |         |      |      |         |      |      |   |       |       |         |         |      |       |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.61 | 0.51 | 4.38 | 4.65 | 0.01    | 0.18    | —    | 0.18 | 0.16    | —    | 0.16 | — | 857   | 857   | 0.03    | 0.01    | —    | 860   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 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 | 0.80 | 0.85 | < 0.005 | 0.03    | —    | 0.03 | 0.03    | —    | 0.03 | — | 142   | 142   | 0.01    | < 0.005 | —    | 142   |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.35 | 0.32 | 0.26 | 4.10 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23 | 0.23 | — | 1,016 | 1,016 | 0.02    | 0.04    | 3.71 | 1,031 |
| Vendor              | 0.12 | 0.03 | 1.19 | 0.71 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05 | 0.06 | — | 798   | 798   | 0.08    | 0.12    | 1.96 | 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.35 | 0.31 | 0.33 | 3.79 | 0.00    | 0.00    | 1.00 | 1.00 | 0.00    | 0.23 | 0.23 | — | 959   | 959   | 0.02    | 0.04    | 0.10 | 972   |
| Vendor              | 0.11 | 0.03 | 1.25 | 0.72 | 0.01    | 0.01    | 0.20 | 0.21 | 0.01    | 0.05 | 0.06 | — | 798   | 798   | 0.08    | 0.12    | 0.05 | 835   |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.14 | 0.12 | 0.11 | 1.43 | 0.00    | 0.00    | 0.38 | 0.38 | 0.00    | 0.09 | 0.09 | — | 375   | 375   | 0.01    | 0.02    | 0.63 | 380   |
| Vendor              | 0.04 | 0.01 | 0.48 | 0.28 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.02 | 0.02 | — | 311   | 311   | 0.03    | 0.05    | 0.33 | 325   |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02 | 0.02 | 0.02 | 0.26 | 0.00    | 0.00    | 0.07 | 0.07 | 0.00    | 0.02 | 0.02 | — | 62.1  | 62.1  | < 0.005 | < 0.005 | 0.10 | 62.9  |

|         |      |         |      |      |         |         |      |      |         |         |         |   |      |      |      |      |      |      |
|---------|------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|------|------|------|------|
| Vendor  | 0.01 | < 0.005 | 0.09 | 0.05 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 51.5 | 51.5 | 0.01 | 0.01 | 0.05 | 53.9 |
| Hauling | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

### 3.11. Paving (2023) - 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,<br>Summer<br>(Max) | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 0.92 | 0.78    | 6.66 | 8.27 | 0.01    | 0.33  | —     | 0.33  | 0.31   | —      | 0.31   | —    | 1,244 | 1,244 | 0.05 | 0.01    | —    | 1,248 |
| Paving                    | —    | 0.02    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily,<br>Winter<br>(Max) | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 0.92 | 0.78    | 6.66 | 8.27 | 0.01    | 0.33  | —     | 0.33  | 0.31   | —      | 0.31   | —    | 1,244 | 1,244 | 0.05 | 0.01    | —    | 1,248 |
| Paving                    | —    | 0.02    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Average<br>Daily          | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Off-Road<br>Equipment     | 0.20 | 0.17    | 1.43 | 1.78 | < 0.005 | 0.07  | —     | 0.07  | 0.07   | —      | 0.07   | —    | 268   | 268   | 0.01 | < 0.005 | —    | 269   |
| Paving                    | —    | < 0.005 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 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    | 0.26    | 0.32 | < 0.005 | 0.01 | —       | 0.01    | 0.01 | —       | 0.01    | — | 44.3 | 44.3 | < 0.005 | < 0.005 | —    | 44.5 |
| Paving              | —       | < 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) | —       | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05    | 0.05    | 0.04    | 0.56 | 0.00    | 0.00 | 0.12    | 0.12    | 0.00 | 0.03    | 0.03    | — | 129  | 129  | < 0.005 | < 0.005 | 0.52 | 131  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 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    | 0.05    | 0.52 | 0.00    | 0.00 | 0.12    | 0.12    | 0.00 | 0.03    | 0.03    | — | 122  | 122  | < 0.005 | 0.01    | 0.01 | 124  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 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 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.05 | 26.7 |
| 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 | 0.02 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.36 | 4.36 | < 0.005 | < 0.005 | 0.01 | 4.42 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.12. Paving (2023) - 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  | 0.92 | 0.78    | 6.66 | 8.27 | 0.01    | 0.33  | —     | 0.33  | 0.31   | —      | 0.31   | —    | 1,244 | 1,244 | 0.05    | 0.01    | —    | 1,248 |
| Paving              | —    | 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  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.92 | 0.78    | 6.66 | 8.27 | 0.01    | 0.33  | —     | 0.33  | 0.31   | —      | 0.31   | —    | 1,244 | 1,244 | 0.05    | 0.01    | —    | 1,248 |
| Paving              | —    | 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  |
| Average Daily       | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.20 | 0.17    | 1.43 | 1.78 | < 0.005 | 0.07  | —     | 0.07  | 0.07   | —      | 0.07   | —    | 268   | 268   | 0.01    | < 0.005 | —    | 269   |
| Paving              | —    | < 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  |
| Annual              | —    | —       | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04 | 0.03    | 0.26 | 0.32 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 44.3  | 44.3  | < 0.005 | < 0.005 | —    | 44.5  |
| Paving              | —    | < 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) | —       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.05    | 0.05    | 0.04    | 0.56 | 0.00 | 0.00 | 0.12    | 0.12    | 0.00 | 0.03    | 0.03    | — | 129  | 129  | < 0.005 | < 0.005 | 0.52 | 131  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 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    | 0.05    | 0.52 | 0.00 | 0.00 | 0.12    | 0.12    | 0.00 | 0.03    | 0.03    | — | 122  | 122  | < 0.005 | 0.01    | 0.01 | 124  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 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 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.05 | 26.7 |
| 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 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 4.36 | 4.36 | < 0.005 | < 0.005 | 0.01 | 4.42 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.13. Paving (2024) - 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  | 0.89 | 0.75    | 6.44 | 8.26 | 0.01    | 0.31 | —    | 0.31 | 0.29 | —    | 0.29 | — | 1,244 | 1,244 | 0.05    | 0.01    | —    | 1,248 |
| Paving              | —    | 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  |
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.89 | 0.75    | 6.44 | 8.26 | 0.01    | 0.31 | —    | 0.31 | 0.29 | —    | 0.29 | — | 1,244 | 1,244 | 0.05    | 0.01    | —    | 1,248 |
| Paving              | —    | 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  |
| Average Daily       | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.35 | 0.29    | 2.50 | 3.20 | < 0.005 | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | — | 482   | 482   | 0.02    | < 0.005 | —    | 484   |
| Paving              | —    | 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  | 0.06 | 0.05    | 0.46 | 0.58 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 79.8  | 79.8  | < 0.005 | < 0.005 | —    | 80.1  |
| Paving              | —    | < 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) | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04 | 0.04    | 0.03 | 0.51 | 0.00    | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 126   | 126   | < 0.005 | < 0.005 | 0.46 | 128   |
| Vendor              | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |

|                           |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily,<br>Winter<br>(Max) | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                    | 0.04    | 0.04    | 0.04    | 0.47 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03    | 0.03    | — | 119  | 119  | < 0.005 | < 0.005 | 0.01 | 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<br>Daily          | —       | —       | —       | —    | —    | —    | —    | —    | —    | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                    | 0.02    | 0.01    | 0.01    | 0.18 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01    | 0.01    | — | 46.4 | 46.4 | < 0.005 | < 0.005 | 0.08 | 47.0 |
| 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 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.68 | 7.68 | < 0.005 | < 0.005 | 0.01 | 7.79 |
| Vendor                    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.14. Paving (2024) - 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,<br>Summer<br>(Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road<br>Equipment     | 0.89 | 0.75 | 6.44 | 8.26 | 0.01 | 0.31  | —     | 0.31  | 0.29   | —      | 0.29   | —    | 1,244 | 1,244 | 0.05 | 0.01 | —    | 1,248 |
| Paving                    | —    | 0.02 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Onsite<br>truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |

|                     |      |         |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|---------------------|------|---------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.89 | 0.75    | 6.44 | 8.26 | 0.01    | 0.31 | —    | 0.31 | 0.29 | —    | 0.29 | — | 1,244 | 1,244 | 0.05    | 0.01    | —    | 1,248 |
| Paving              | —    | 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  |
| Average Daily       | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.35 | 0.29    | 2.50 | 3.20 | < 0.005 | 0.12 | —    | 0.12 | 0.11 | —    | 0.11 | — | 482   | 482   | 0.02    | < 0.005 | —    | 484   |
| Paving              | —    | 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  | 0.06 | 0.05    | 0.46 | 0.58 | < 0.005 | 0.02 | —    | 0.02 | 0.02 | —    | 0.02 | — | 79.8  | 79.8  | < 0.005 | < 0.005 | —    | 80.1  |
| Paving              | —    | < 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) | —    | —       | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04 | 0.04    | 0.03 | 0.51 | 0.00    | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 126   | 126   | < 0.005 | < 0.005 | 0.46 | 128   |
| Vendor              | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Hauling             | 0.00 | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 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    | 0.04 | 0.47 | 0.00    | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 119   | 119   | < 0.005 | < 0.005 | 0.01 | 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        | 0.02    | 0.01    | 0.01    | 0.18 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01    | 0.01    | — | 46.4 | 46.4 | < 0.005 | < 0.005 | 0.08 | 47.0 |
| 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 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.68 | 7.68 | < 0.005 | < 0.005 | 0.01 | 7.79 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

3.15. Architectural Coating (2023) - 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      | 0.18 | 0.15 | 0.93 | 1.15 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |
| Architect ural Coatings | —    | 8.78 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment      | 0.18 | 0.15 | 0.93 | 1.15 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |

|                         |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|-------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Architect Coatings      | —    | 8.78 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.20 | 0.25 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 28.7 | 28.7 | < 0.005 | < 0.005 | —    | 28.8 |
| Architect ural Coatings | —    | 1.89 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.05 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 4.76 | 4.76 | < 0.005 | < 0.005 | —    | 4.77 |
| Architect ural Coatings | —    | 0.34 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.07 | 0.06 | 0.90 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 208  | 208  | < 0.005 | 0.01    | 0.84 | 211  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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 | 0.07 | 0.83 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 196  | 196  | < 0.005 | 0.01    | 0.02 | 199  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|               |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 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    | 0.17 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.08 | 43.0 |
| 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 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.11 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.16. Architectural Coating (2023) - 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     | 0.18 | 0.15 | 0.93 | 1.15 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |
| Architectural Coatings | —    | 8.78 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment     | 0.18 | 0.15 | 0.93 | 1.15 | < 0.005 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |

|                         |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|-------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Architect ural          | —    | 8.78 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.20 | 0.25 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 28.7 | 28.7 | < 0.005 | < 0.005 | —    | 28.8 |
| Architect ural Coatings | —    | 1.89 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.05 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 4.76 | 4.76 | < 0.005 | < 0.005 | —    | 4.77 |
| Architect ural Coatings | —    | 0.34 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.07 | 0.06 | 0.90 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 208  | 208  | < 0.005 | 0.01    | 0.84 | 211  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 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 | 0.07 | 0.83 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 196  | 196  | < 0.005 | 0.01    | 0.02 | 199  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|               |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 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    | 0.17 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.08 | 43.0 |
| 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 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.11 |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.17. Architectural Coating (2024) - 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     | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |
| Architectural Coatings | —    | 8.78 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment     | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |

|                         |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|-------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Architect ural          | —    | 8.78 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.35 | 0.44 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 51.7 | 51.7 | < 0.005 | < 0.005 | —    | 51.9 |
| Architect ural Coatings | —    | 3.40 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Annual                  | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment      | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 8.57 | 8.57 | < 0.005 | < 0.005 | —    | 8.59 |
| Architect ural Coatings | —    | 0.62 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                 | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                  | 0.07 | 0.06 | 0.05 | 0.82 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 203  | 203  | < 0.005 | 0.01    | 0.74 | 206  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                  | 0.07 | 0.06 | 0.07 | 0.76 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 192  | 192  | < 0.005 | 0.01    | 0.02 | 194  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|               |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 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    | 0.02    | 0.02    | 0.28 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02    | 0.02    | — | 74.6 | 74.6 | < 0.005 | < 0.005 | 0.12 | 75.7 |
| 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 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.02 | 12.5 |
| 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 |

### 3.18. Architectural Coating (2024) - 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     | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |
| Architectural Coatings | —    | 8.78 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Onsite truck           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment     | 0.17 | 0.14 | 0.91 | 1.15 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 134   | 134  | 0.01 | < 0.005 | —    | 134  |

|                         |      |      |      |      |         |         |      |         |         |      |         |   |      |      |         |         |      |      |
|-------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Architect ural          | —    | 8.78 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 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 | 0.35 | 0.44 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 51.7 | 51.7 | < 0.005 | < 0.005 | —    | 51.9 |
| Architect ural Coatings | —    | 3.40 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Annual                  | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment      | 0.01 | 0.01 | 0.06 | 0.08 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 8.57 | 8.57 | < 0.005 | < 0.005 | —    | 8.59 |
| Architect ural Coatings | —    | 0.62 | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Onsite truck            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite                 | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max)     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                  | 0.07 | 0.06 | 0.05 | 0.82 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 203  | 203  | < 0.005 | 0.01    | 0.74 | 206  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Hauling                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —    | —    | —       | —       | —    | —    |
| Worker                  | 0.07 | 0.06 | 0.07 | 0.76 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05 | 0.05    | — | 192  | 192  | < 0.005 | 0.01    | 0.02 | 194  |
| Vendor                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|               |         |         |         |      |      |      |      |      |      |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 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    | 0.02    | 0.02    | 0.28 | 0.00 | 0.00 | 0.08 | 0.08 | 0.00 | 0.02    | 0.02    | — | 74.6 | 74.6 | < 0.005 | < 0.005 | 0.12 | 75.7 |
| 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 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 12.3 | 12.3 | < 0.005 | < 0.005 | 0.02 | 12.5 |
| 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 |

## 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)          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Apartments Mid Rise          | 0.73 | 0.68 | 0.42 | 4.87 | 0.01 | 0.01  | 0.42  | 0.43  | 0.01   | 0.07   | 0.08   | —    | 1,216 | 1,216 | 0.06 | 0.05 | 4.44 | 1,236 |
| General Office Building      | 0.80 | 0.73 | 0.55 | 6.54 | 0.02 | 0.01  | 0.62  | 0.63  | 0.01   | 0.11   | 0.12   | —    | 1,780 | 1,780 | 0.07 | 0.06 | 6.58 | 1,806 |
| Unenclosed Parking Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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  |
| Total                        | 1.53 | 1.42 | 0.98 | 11.4 | 0.03    | 0.02    | 1.05 | 1.06 | 0.02    | 0.18 | 0.20 | — | 2,997 | 2,997 | 0.12 | 0.11 | 11.0 | 3,042 |
| Daily, Winter (Max)          | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Apartments Mid Rise          | 0.72 | 0.67 | 0.50 | 4.98 | 0.01    | 0.01    | 0.42 | 0.43 | 0.01    | 0.07 | 0.08 | — | 1,163 | 1,163 | 0.06 | 0.05 | 0.12 | 1,180 |
| General Office Building      | 0.79 | 0.72 | 0.65 | 6.42 | 0.02    | 0.01    | 0.62 | 0.63 | 0.01    | 0.11 | 0.12 | — | 1,700 | 1,700 | 0.08 | 0.07 | 0.17 | 1,722 |
| Unenclosed Parking Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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  |
| Total                        | 1.51 | 1.39 | 1.15 | 11.4 | 0.03    | 0.02    | 1.05 | 1.06 | 0.02    | 0.18 | 0.20 | — | 2,863 | 2,863 | 0.14 | 0.12 | 0.29 | 2,902 |
| Annual                       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Apartments Mid Rise          | 0.13 | 0.12 | 0.09 | 0.86 | < 0.005 | < 0.005 | 0.08 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 193   | 193   | 0.01 | 0.01 | 0.32 | 196   |
| General Office Building      | 0.14 | 0.13 | 0.11 | 1.12 | < 0.005 | < 0.005 | 0.11 | 0.12 | < 0.005 | 0.02 | 0.02 | — | 282   | 282   | 0.01 | 0.01 | 0.47 | 286   |
| Unenclosed Parking Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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  |
| Total                        | 0.27 | 0.25 | 0.20 | 1.99 | 0.01    | < 0.005 | 0.19 | 0.19 | < 0.005 | 0.03 | 0.04 | — | 475   | 475   | 0.02 | 0.02 | 0.79 | 482   |

## 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)          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Apartments Mid Rise          | 0.71 | 0.66 | 0.41 | 4.73 | 0.01 | 0.01  | 0.41  | 0.42  | 0.01   | 0.07   | 0.08   | —    | 1,182 | 1,182 | 0.05 | 0.04 | 4.32 | 1,200 |
| General Office Building      | 0.77 | 0.71 | 0.53 | 6.30 | 0.02 | 0.01  | 0.60  | 0.61  | 0.01   | 0.11   | 0.11   | —    | 1,714 | 1,714 | 0.06 | 0.06 | 6.33 | 1,739 |
| Unenclosed Parking Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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  |
| Total                        | 1.48 | 1.37 | 0.94 | 11.0 | 0.03 | 0.02  | 1.01  | 1.03  | 0.02   | 0.18   | 0.19   | —    | 2,896 | 2,896 | 0.12 | 0.10 | 10.6 | 2,940 |
| Daily, Winter (Max)          | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Apartments Mid Rise          | 0.70 | 0.65 | 0.48 | 4.84 | 0.01 | 0.01  | 0.41  | 0.42  | 0.01   | 0.07   | 0.08   | —    | 1,130 | 1,130 | 0.06 | 0.05 | 0.11 | 1,146 |
| General Office Building      | 0.76 | 0.69 | 0.63 | 6.18 | 0.02 | 0.01  | 0.60  | 0.61  | 0.01   | 0.11   | 0.11   | —    | 1,637 | 1,637 | 0.07 | 0.06 | 0.16 | 1,658 |
| Unenclosed Parking Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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  |

|                                    |      |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |      |       |
|------------------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| Total                              | 1.46 | 1.34 | 1.12 | 11.0 | 0.03    | 0.02    | 1.01 | 1.03 | 0.02    | 0.18 | 0.19 | — | 2,767 | 2,767 | 0.13 | 0.11 | 0.28 | 2,804 |
| Annual                             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Apartments<br>Mid Rise             | 0.13 | 0.12 | 0.08 | 0.84 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.01 | 0.01 | — | 187   | 187   | 0.01 | 0.01 | 0.31 | 190   |
| General<br>Office<br>Building      | 0.14 | 0.12 | 0.11 | 1.08 | < 0.005 | < 0.005 | 0.11 | 0.11 | < 0.005 | 0.02 | 0.02 | — | 272   | 272   | 0.01 | 0.01 | 0.45 | 276   |
| Unenclosed<br>Parking<br>Structure | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 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<br>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  |
| Total                              | 0.26 | 0.24 | 0.19 | 1.92 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.03 | 0.04 | — | 459   | 459   | 0.02 | 0.02 | 0.76 | 466   |

## 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,<br>Summer<br>(Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Apartments<br>Mid Rise        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 229   | 229  | 0.04 | < 0.005 | — | 231  |
| General<br>Office<br>Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 320   | 320  | 0.05 | 0.01    | — | 323  |

|                                    |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| Unenclosed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | — | 89.3 | 89.3 | 0.01    | < 0.005 | — | 90.2 |
| Parking<br>Lot                     | — | — | — | — | — | — | — | — | — | — | — | — | 6.40 | 6.40 | < 0.005 | < 0.005 | — | 6.46 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | — | 645  | 645  | 0.10    | 0.01    | — | 651  |
| Daily,<br>Winter<br>(Max)          | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| Apartments<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | — | 229  | 229  | 0.04    | < 0.005 | — | 231  |
| General<br>Office<br>Building      | — | — | — | — | — | — | — | — | — | — | — | — | 320  | 320  | 0.05    | 0.01    | — | 323  |
| Unenclosed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | — | 89.3 | 89.3 | 0.01    | < 0.005 | — | 90.2 |
| Parking<br>Lot                     | — | — | — | — | — | — | — | — | — | — | — | — | 6.40 | 6.40 | < 0.005 | < 0.005 | — | 6.46 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | — | 645  | 645  | 0.10    | 0.01    | — | 651  |
| Annual                             | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| Apartments<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | — | 37.9 | 37.9 | 0.01    | < 0.005 | — | 38.3 |
| General<br>Office<br>Building      | — | — | — | — | — | — | — | — | — | — | — | — | 53.0 | 53.0 | 0.01    | < 0.005 | — | 53.6 |
| Unenclosed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | — | 14.8 | 14.8 | < 0.005 | < 0.005 | — | 14.9 |
| Parking<br>Lot                     | — | — | — | — | — | — | — | — | — | — | — | — | 1.06 | 1.06 | < 0.005 | < 0.005 | — | 1.07 |

|       |   |   |   |   |   |   |   |   |   |   |   |   |     |     |      |         |   |     |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|------|---------|---|-----|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 107 | 107 | 0.02 | < 0.005 | — | 108 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|------|---------|---|-----|

#### 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)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Apartments Mid Rise          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 229   | 229  | 0.04    | < 0.005 | — | 231  |
| General Office Building      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 320   | 320  | 0.05    | 0.01    | — | 323  |
| Unenclosed Parking Structure | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 89.3  | 89.3 | 0.01    | < 0.005 | — | 90.2 |
| Parking Lot                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 6.40  | 6.40 | < 0.005 | < 0.005 | — | 6.46 |
| Total                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 645   | 645  | 0.10    | 0.01    | — | 651  |
| Daily, Winter (Max)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| Apartments Mid Rise          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 229   | 229  | 0.04    | < 0.005 | — | 231  |
| General Office Building      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 320   | 320  | 0.05    | 0.01    | — | 323  |
| Unenclosed Parking Structure | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 89.3  | 89.3 | 0.01    | < 0.005 | — | 90.2 |

|                              |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| Parking Lot                  | — | — | — | — | — | — | — | — | — | — | — | — | 6.40 | 6.40 | < 0.005 | < 0.005 | — | 6.46 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | — | 645  | 645  | 0.10    | 0.01    | — | 651  |
| Annual                       | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| Apartments Mid Rise          | — | — | — | — | — | — | — | — | — | — | — | — | 37.9 | 37.9 | 0.01    | < 0.005 | — | 38.3 |
| General Office Building      | — | — | — | — | — | — | — | — | — | — | — | — | 53.0 | 53.0 | 0.01    | < 0.005 | — | 53.6 |
| Unenclosed Parking Structure | — | — | — | — | — | — | — | — | — | — | — | — | 14.8 | 14.8 | < 0.005 | < 0.005 | — | 14.9 |
| Parking Lot                  | — | — | — | — | — | — | — | — | — | — | — | — | 1.06 | 1.06 | < 0.005 | < 0.005 | — | 1.07 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | — | 107  | 107  | 0.02    | < 0.005 | — | 108  |

#### 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)     | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Apartments Mid Rise     | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 339   | 339  | 0.03 | < 0.005 | — | 340  |
| General Office Building | 0.02 | 0.01 | 0.17 | 0.15 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 206   | 206  | 0.02 | < 0.005 | — | 207  |

|                                        |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|----------------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Unenclos<br>ed<br>Parking<br>Structure | 0.00    | 0.00    | 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<br>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 |
| Total                                  | 0.05    | 0.03    | 0.44 | 0.26 | < 0.005 | 0.03    | — | 0.03    | 0.03    | — | 0.03    | — | 545  | 545  | 0.05    | < 0.005 | — | 546  |
| Daily,<br>Winter<br>(Max)              | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Apartme<br>nts<br>Mid Rise             | 0.03    | 0.02    | 0.27 | 0.11 | < 0.005 | 0.02    | — | 0.02    | 0.02    | — | 0.02    | — | 339  | 339  | 0.03    | < 0.005 | — | 340  |
| General<br>Office<br>Building          | 0.02    | 0.01    | 0.17 | 0.15 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 206  | 206  | 0.02    | < 0.005 | — | 207  |
| Unenclos<br>ed<br>Parking<br>Structure | 0.00    | 0.00    | 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<br>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 |
| Total                                  | 0.05    | 0.03    | 0.44 | 0.26 | < 0.005 | 0.03    | — | 0.03    | 0.03    | — | 0.03    | — | 545  | 545  | 0.05    | < 0.005 | — | 546  |
| Annual                                 | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Apartme<br>nts<br>Mid Rise             | 0.01    | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.1 | 56.1 | < 0.005 | < 0.005 | — | 56.2 |
| General<br>Office<br>Building          | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 34.1 | 34.1 | < 0.005 | < 0.005 | — | 34.2 |
| Unenclos<br>ed<br>Parking<br>Structure | 0.00    | 0.00    | 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<br>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 |

|       |      |         |      |      |         |      |   |      |      |   |      |   |      |      |      |         |   |      |
|-------|------|---------|------|------|---------|------|---|------|------|---|------|---|------|------|------|---------|---|------|
| Total | 0.01 | < 0.005 | 0.08 | 0.05 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 90.2 | 90.2 | 0.01 | < 0.005 | — | 90.4 |
|-------|------|---------|------|------|---------|------|---|------|------|---|------|---|------|------|------|---------|---|------|

#### 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)          | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Apartments Mid Rise          | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 339   | 339  | 0.03 | < 0.005 | — | 340  |
| General Office Building      | 0.02 | 0.01 | 0.17 | 0.15 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 206   | 206  | 0.02 | < 0.005 | — | 207  |
| Unenclosed Parking Structure | 0.00 | 0.00 | 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 |
| Total                        | 0.05 | 0.03 | 0.44 | 0.26 | < 0.005 | 0.03  | —     | 0.03  | 0.03   | —      | 0.03   | —    | 545   | 545  | 0.05 | < 0.005 | — | 546  |
| Daily, Winter (Max)          | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| Apartments Mid Rise          | 0.03 | 0.02 | 0.27 | 0.11 | < 0.005 | 0.02  | —     | 0.02  | 0.02   | —      | 0.02   | —    | 339   | 339  | 0.03 | < 0.005 | — | 340  |
| General Office Building      | 0.02 | 0.01 | 0.17 | 0.15 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 206   | 206  | 0.02 | < 0.005 | — | 207  |
| Unenclosed Parking Structure | 0.00 | 0.00 | 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 |
| Total                        | 0.05    | 0.03    | 0.44 | 0.26 | < 0.005 | 0.03    | — | 0.03    | 0.03    | — | 0.03    | — | 545  | 545  | 0.05    | < 0.005 | — | 546  |
| Annual                       | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Apartments Mid Rise          | 0.01    | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 56.1 | 56.1 | < 0.005 | < 0.005 | — | 56.2 |
| General Office Building      | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 34.1 | 34.1 | < 0.005 | < 0.005 | — | 34.2 |
| Unenclosed Parking Structure | 0.00    | 0.00    | 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 |
| Total                        | 0.01    | < 0.005 | 0.08 | 0.05 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 90.2 | 90.2 | 0.01    | < 0.005 | — | 90.4 |

### 4.3. Area Emissions by Source

#### 4.3.2. Unmitigated

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

| Source                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R | CO2e  |
|------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|---|-------|
| Daily, Summer (Max)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Hearths                | 0.14 | 0.07 | 1.18 | 0.50 | 0.01 | 0.10  | —     | 0.10  | 0.10   | —      | 0.10   | 0.00 | 1,503 | 1,503 | 0.03 | < 0.005 | — | 1,505 |
| Consumer Products      | —    | 3.05 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |
| Architectural Coatings | —    | 0.53 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —       | — | —     |

|                                |         |         |      |         |         |         |   |         |         |   |         |      |       |       |         |         |   |       |
|--------------------------------|---------|---------|------|---------|---------|---------|---|---------|---------|---|---------|------|-------|-------|---------|---------|---|-------|
| Landsca<br>Equipment           | 1.34    | 1.25    | 0.10 | 10.6    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | —    | 33.9  | 33.9  | < 0.005 | < 0.005 | — | 34.0  |
| Total                          | 1.47    | 4.90    | 1.28 | 11.1    | 0.01    | 0.10    | — | 0.10    | 0.11    | — | 0.11    | 0.00 | 1,537 | 1,537 | 0.03    | < 0.005 | — | 1,539 |
| Daily,<br>Winter<br>(Max)      | —       | —       | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Hearths                        | 0.14    | 0.07    | 1.18 | 0.50    | 0.01    | 0.10    | — | 0.10    | 0.10    | — | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | — | 1,505 |
| Consum<br>er<br>Products       | —       | 3.05    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Architect<br>ural<br>Coatings  | —       | 0.53    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Total                          | 0.14    | 3.65    | 1.18 | 0.50    | 0.01    | 0.10    | — | 0.10    | 0.10    | — | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | — | 1,505 |
| Annual                         | —       | —       | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Hearths                        | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.14  | 6.14  | < 0.005 | < 0.005 | — | 6.14  |
| Consum<br>er<br>Products       | —       | 0.56    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Architect<br>ural<br>Coatings  | —       | 0.10    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Landsca<br>pe<br>Equipme<br>nt | 0.12    | 0.11    | 0.01 | 0.95    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | —    | 2.77  | 2.77  | < 0.005 | < 0.005 | — | 2.78  |
| Total                          | 0.12    | 0.77    | 0.01 | 0.96    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 8.91  | 8.91  | < 0.005 | < 0.005 | — | 8.92  |

#### 4.3.1. Mitigated

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

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

|                        |         |         |      |         |         |         |   |         |         |   |         |      |       |       |         |         |   |       |
|------------------------|---------|---------|------|---------|---------|---------|---|---------|---------|---|---------|------|-------|-------|---------|---------|---|-------|
| Daily, Summer (Max)    | —       | —       | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Hearths                | 0.14    | 0.07    | 1.18 | 0.50    | 0.01    | 0.10    | — | 0.10    | 0.10    | — | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | — | 1,505 |
| Consumer Products      | —       | 3.05    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Architectural Coatings | —       | 0.53    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Landscape Equipment    | 1.34    | 1.25    | 0.10 | 10.6    | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | —    | 33.9  | 33.9  | < 0.005 | < 0.005 | — | 34.0  |
| Total                  | 1.47    | 4.90    | 1.28 | 11.1    | 0.01    | 0.10    | — | 0.10    | 0.11    | — | 0.11    | 0.00 | 1,537 | 1,537 | 0.03    | < 0.005 | — | 1,539 |
| Daily, Winter (Max)    | —       | —       | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Hearths                | 0.14    | 0.07    | 1.18 | 0.50    | 0.01    | 0.10    | — | 0.10    | 0.10    | — | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | — | 1,505 |
| Consumer Products      | —       | 3.05    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Architectural Coatings | —       | 0.53    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Total                  | 0.14    | 3.65    | 1.18 | 0.50    | 0.01    | 0.10    | — | 0.10    | 0.10    | — | 0.10    | 0.00 | 1,503 | 1,503 | 0.03    | < 0.005 | — | 1,505 |
| Annual                 | —       | —       | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Hearths                | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 6.14  | 6.14  | < 0.005 | < 0.005 | — | 6.14  |
| Consumer Products      | —       | 0.56    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |
| Architectural Coatings | —       | 0.10    | —    | —       | —       | —       | — | —       | —       | — | —       | —    | —     | —     | —       | —       | — | —     |

|           |      |      |      |      |         |         |   |         |         |   |         |      |      |      |         |         |   |      |
|-----------|------|------|------|------|---------|---------|---|---------|---------|---|---------|------|------|------|---------|---------|---|------|
| Landscape | 0.12 | 0.11 | 0.01 | 0.95 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | —    | 2.77 | 2.77 | < 0.005 | < 0.005 | — | 2.78 |
| Total     | 0.12 | 0.77 | 0.01 | 0.96 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.00 | 8.91 | 8.91 | < 0.005 | < 0.005 | — | 8.92 |

#### 4.4. Water Emissions by Land Use

##### 4.4.2. Unmitigated

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

| Land Use                     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Apartments Mid Rise          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 8.34 | 15.7  | 24.1 | 0.86 | 0.02 | — | 51.7 |
| General Office Building      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 9.20 | 17.4  | 26.6 | 0.95 | 0.02 | — | 57.0 |
| Unenclosed Parking Structure | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 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 |
| Total                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 17.5 | 33.1  | 50.7 | 1.80 | 0.04 | — | 109  |
| Daily, Winter (Max)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Apartments Mid Rise          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 8.34 | 15.7  | 24.1 | 0.86 | 0.02 | — | 51.7 |

|                              |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| General Office Building      | — | — | — | — | — | — | — | — | — | — | — | 9.20 | 17.4 | 26.6 | 0.95 | 0.02    | — | 57.0 |
| Unenclosed Parking Structure | — | — | — | — | — | — | — | — | — | — | — | 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 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | 17.5 | 33.1 | 50.7 | 1.80 | 0.04    | — | 109  |
| Annual                       | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Apartments Mid Rise          | — | — | — | — | — | — | — | — | — | — | — | 1.38 | 2.61 | 3.99 | 0.14 | < 0.005 | — | 8.56 |
| General Office Building      | — | — | — | — | — | — | — | — | — | — | — | 1.52 | 2.88 | 4.40 | 0.16 | < 0.005 | — | 9.43 |
| Unenclosed Parking Structure | — | — | — | — | — | — | — | — | — | — | — | 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 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | 2.90 | 5.48 | 8.39 | 0.30 | 0.01    | — | 18.0 |

#### 4.4.1. Mitigated

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

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

|                                        |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|----------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 8.34 | 15.7 | 24.1 | 0.86 | 0.02    | — | 51.7 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 9.20 | 17.4 | 26.6 | 0.95 | 0.02    | — | 57.0 |
| Unenclos<br>ed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                                  | — | — | — | — | — | — | — | — | — | — | — | 17.5 | 33.1 | 50.7 | 1.80 | 0.04    | — | 109  |
| Daily,<br>Winter<br>(Max)              | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 8.34 | 15.7 | 24.1 | 0.86 | 0.02    | — | 51.7 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 9.20 | 17.4 | 26.6 | 0.95 | 0.02    | — | 57.0 |
| Unenclos<br>ed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                                  | — | — | — | — | — | — | — | — | — | — | — | 17.5 | 33.1 | 50.7 | 1.80 | 0.04    | — | 109  |
| Annual                                 | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 1.38 | 2.61 | 3.99 | 0.14 | < 0.005 | — | 8.56 |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 1.52 | 2.88 | 4.40 | 0.16 | < 0.005 | — | 9.43 |

|                              |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Unenclosed Parking Structure | — | — | — | — | — | — | — | — | — | — | — | 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 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | 2.90 | 5.48 | 8.39 | 0.30 | 0.01 | — | 18.0 |

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated

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

| Land Use                     | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Apartments Mid Rise          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 47.9 | 0.00  | 47.9 | 4.79 | 0.00 | — | 168  |
| General Office Building      | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 13.5 | 0.00  | 13.5 | 1.35 | 0.00 | — | 47.3 |
| Unenclosed Parking Structure | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 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 |
| Total                        | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 61.4 | 0.00  | 61.4 | 6.14 | 0.00 | — | 215  |
| Daily, Winter (Max)          | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |

|                                    |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Apartments<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 47.9 | 0.00 | 47.9 | 4.79 | 0.00 | — | 168  |
| General<br>Office<br>Building      | — | — | — | — | — | — | — | — | — | — | — | 13.5 | 0.00 | 13.5 | 1.35 | 0.00 | — | 47.3 |
| Unenclosed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                     | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | 61.4 | 0.00 | 61.4 | 6.14 | 0.00 | — | 215  |
| Annual                             | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Apartments<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 7.93 | 0.00 | 7.93 | 0.79 | 0.00 | — | 27.7 |
| General<br>Office<br>Building      | — | — | — | — | — | — | — | — | — | — | — | 2.24 | 0.00 | 2.24 | 0.22 | 0.00 | — | 7.84 |
| Unenclosed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                     | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                              | — | — | — | — | — | — | — | — | — | — | — | 10.2 | 0.00 | 10.2 | 1.02 | 0.00 | — | 35.6 |

#### 4.5.1. Mitigated

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

| Land<br>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)                    | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 47.9 | 0.00 | 47.9 | 4.79 | 0.00 | — | 168  |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 13.5 | 0.00 | 13.5 | 1.35 | 0.00 | — | 47.3 |
| Unenclos<br>ed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                  | — | — | — | — | — | — | — | — | — | — | — | 61.4 | 0.00 | 61.4 | 6.14 | 0.00 | — | 215  |
| Daily, Winter (Max)                    | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 47.9 | 0.00 | 47.9 | 4.79 | 0.00 | — | 168  |
| General<br>Office<br>Building          | — | — | — | — | — | — | — | — | — | — | — | 13.5 | 0.00 | 13.5 | 1.35 | 0.00 | — | 47.3 |
| Unenclos<br>ed<br>Parking<br>Structure | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Parking<br>Lot                         | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                                  | — | — | — | — | — | — | — | — | — | — | — | 61.4 | 0.00 | 61.4 | 6.14 | 0.00 | — | 215  |
| Annual                                 | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| Apartme<br>nts<br>Mid Rise             | — | — | — | — | — | — | — | — | — | — | — | 7.93 | 0.00 | 7.93 | 0.79 | 0.00 | — | 27.7 |

|                              |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| General Office Building      | — | — | — | — | — | — | — | — | — | — | — | 2.24 | 0.00 | 2.24 | 0.22 | 0.00 | — | 7.84 |
| Unenclosed Parking Structure | — | — | — | — | — | — | — | — | — | — | — | 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 |
| Total                        | — | — | — | — | — | — | — | — | — | — | — | 10.2 | 0.00 | 10.2 | 1.02 | 0.00 | — | 35.6 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

| Land Use                | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R    | CO2e |
|-------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|------|
| Daily, Summer (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Apartments Mid Rise     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.83 | 0.83 |
| General Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.07 | 0.07 |
| Total                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.89 | 0.89 |
| Daily, Winter (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Apartments Mid Rise     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.83 | 0.83 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Apartments Mid Rise     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14 | 0.14 |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.15 | 0.15 |

#### 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)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Apartments Mid Rise     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.83 | 0.83 |
| General Office Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.07 | 0.07 |
| Total                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.89 | 0.89 |
| Daily, Winter (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| Apartments Mid Rise     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.83 | 0.83 |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.07 | 0.07 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| Apartments Mid Rise     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.14 | 0.14 |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.15 | 0.15 |

## 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 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) | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |
| 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|                           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily,<br>Winter<br>(Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —                         | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual                    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest<br>ered           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d               | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Demolition            | Demolition            | 8/1/2023   | 8/29/2023 | 5.00          | 20.0                | —                 |
| Site Preparation      | Site Preparation      | 8/30/2023  | 9/3/2023  | 5.00          | 3.00                | —                 |
| Grading               | Grading               | 9/4/2023   | 9/12/2023 | 5.00          | 6.00                | —                 |
| Building Construction | Building Construction | 9/13/2023  | 7/17/2024 | 5.00          | 220                 | —                 |
| Paving                | Paving                | 9/13/2023  | 7/16/2024 | 5.00          | 220                 | —                 |
| Architectural Coating | Architectural Coating | 9/13/2023  | 7/16/2024 | 5.00          | 220                 | —                 |

### 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       | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Demolition       | Tractors/Loaders/Backhoes | Diesel    | Average     | 3.00           | 8.00          | 84.0       | 0.37        |
| Site Preparation | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Site Preparation | Scrapers                  | Diesel    | Average     | 1.00           | 8.00          | 423        | 0.48        |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel    | Average     | 1.00           | 7.00          | 84.0       | 0.37        |

|                       |                           |        |         |      |      |      |      |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| 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               | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Cranes                    | Diesel | Average | 1.00 | 8.00 | 367  | 0.29 |
| Building Construction | Forklifts                 | Diesel | Average | 2.00 | 7.00 | 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 | 1.00 | 6.00 | 84.0 | 0.37 |
| Building Construction | Welders                   | Diesel | Average | 3.00 | 8.00 | 46.0 | 0.45 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average | 1.00 | 8.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| 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       | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Demolition       | Tractors/Loaders/Backhoes | Diesel    | Average     | 3.00           | 8.00          | 84.0       | 0.37        |
| Site Preparation | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Site Preparation | Scrapers                  | Diesel    | Average     | 1.00           | 8.00          | 423        | 0.48        |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel    | Average     | 1.00           | 7.00          | 84.0       | 0.37        |

|                       |                           |        |         |      |      |      |      |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| 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               | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Cranes                    | Diesel | Average | 1.00 | 8.00 | 367  | 0.29 |
| Building Construction | Forklifts                 | Diesel | Average | 2.00 | 7.00 | 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 | 1.00 | 6.00 | 84.0 | 0.37 |
| Building Construction | Welders                   | Diesel | Average | 3.00 | 8.00 | 46.0 | 0.45 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average | 1.00 | 8.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| 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       | 12.5                  | 11.7           | LDA,LDT1,LDT2 |
| Demolition       | Vendor       | —                     | 8.40           | HHDT,MHDT     |
| Demolition       | Hauling      | 6.25                  | 20.0           | HHDT          |
| Demolition       | Onsite truck | —                     | —              | HHDT          |
| Site Preparation | —            | —                     | —              | —             |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Site Preparation      | Worker       | 7.50 | 11.7 | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Site Preparation      | Hauling      | 41.7 | 20.0 | HHDT          |
| Site Preparation      | Onsite truck | —    | —    | HHDT          |
| Grading               | —            | —    | —    | —             |
| Grading               | Worker       | 10.0 | 11.7 | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Grading               | Hauling      | 0.00 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 121  | 11.7 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 27.2 | 8.40 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 15.0 | 11.7 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 24.1 | 11.7 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |

### 5.3.2. Mitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|------------|-----------|-----------------------|----------------|-------------|
|------------|-----------|-----------------------|----------------|-------------|

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Demolition            | —            | —    | —    | —             |
| Demolition            | Worker       | 12.5 | 11.7 | LDA,LDT1,LDT2 |
| Demolition            | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Demolition            | Hauling      | 6.25 | 20.0 | HHDT          |
| Demolition            | Onsite truck | —    | —    | HHDT          |
| Site Preparation      | —            | —    | —    | —             |
| Site Preparation      | Worker       | 7.50 | 11.7 | LDA,LDT1,LDT2 |
| Site Preparation      | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Site Preparation      | Hauling      | 41.7 | 20.0 | HHDT          |
| Site Preparation      | Onsite truck | —    | —    | HHDT          |
| Grading               | —            | —    | —    | —             |
| Grading               | Worker       | 10.0 | 11.7 | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Grading               | Hauling      | 0.00 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 121  | 11.7 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 27.2 | 8.40 | HHDT,MHDT     |
| Building Construction | Hauling      | 0.00 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 15.0 | 11.7 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Paving                | Hauling      | 0.00 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 24.1 | 11.7 | LDA,LDT1,LDT2 |

|                       |              |      |      |           |
|-----------------------|--------------|------|------|-----------|
| Architectural Coating | Vendor       | —    | 8.40 | HHDT,MHDT |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT      |
| Architectural Coating | Onsite truck | —    | —    | HHDT      |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied                      | PM10 Reduction | PM2.5 Reduction |
|-------------------------------------------------|----------------|-----------------|
| Water unpaved roads twice daily                 | 55%            | 55%             |
| Limit vehicle speeds on unpaved roads to 25 mph | 44%            | 44%             |

## 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 | 233,280                                  | 77,760                                   | 42,574                                       | 13,756                                       | 3,398                       |

## 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                 | 10,800                                        | —                   |
| Site Preparation | —                      | —                      | 4.50                 | 10,800                                        | —                   |
| Grading          | —                      | —                      | 6.00                 | 0.00                                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                                          | 1.30                |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |

## 5.7. Construction Paving

| Land Use                     | Area Paved (acres) | % Asphalt |
|------------------------------|--------------------|-----------|
| Apartments Mid Rise          | —                  | 0%        |
| General Office Building      | 0.00               | 0%        |
| Unenclosed Parking Structure | 1.00               | 100%      |
| Parking Lot                  | 0.30               | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2023 | 0.00         | 204 | 0.03 | < 0.005 |
| 2024 | 0.00         | 204 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type                | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMt/Weekday | VMt/Saturday | VMt/Sunday | VMt/Year |
|------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Apartments Mid Rise          | 245           | 245            | 245          | 89,243     | 1,547       | 1,547        | 1,547      | 564,797  |
| General Office Building      | 244           | 244            | 244          | 89,188     | 2,289       | 2,289        | 2,289      | 835,637  |
| Unenclosed Parking Structure | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00     |
| Parking Lot                  | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00     |

## 5.9.2. Mitigated

| Land Use Type                | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Apartments Mid Rise          | 238           | 238            | 238          | 86,690     | 1,503       | 1,503        | 1,503      | 548,644  |
| General Office Building      | 235           | 235            | 235          | 85,882     | 2,205       | 2,205        | 2,205      | 804,665  |
| Unenclosed Parking Structure | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00     |
| Parking Lot                  | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00     |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

| Hearth Type               | Unmitigated (number) |
|---------------------------|----------------------|
| Apartments Mid Rise       | —                    |
| Wood Fireplaces           | 0                    |
| Gas Fireplaces            | 61                   |
| Propane Fireplaces        | 0                    |
| Electric Fireplaces       | 0                    |
| No Fireplaces             | 59                   |
| Conventional Wood Stoves  | 0                    |
| Catalytic Wood Stoves     | 0                    |
| Non-Catalytic Wood Stoves | 0                    |
| Pellet Wood Stoves        | 0                    |

#### 5.10.1.2. Mitigated

| Hearth Type               | Unmitigated (number) |
|---------------------------|----------------------|
| Apartments Mid Rise       | —                    |
| Wood Fireplaces           | 0                    |
| Gas Fireplaces            | 61                   |
| Propane Fireplaces        | 0                    |
| Electric Fireplaces       | 0                    |
| No Fireplaces             | 59                   |
| Conventional Wood Stoves  | 0                    |
| Catalytic Wood Stoves     | 0                    |
| Non-Catalytic Wood Stoves | 0                    |
| Pellet Wood Stoves        | 0                    |

#### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| 233280                                   | 77,760                                   | 42,574                                       | 13,756                                       | 3,398                       |

#### 5.10.3. Landscape Equipment

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

#### 5.10.4. Landscape Equipment - Mitigated

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

| Land Use                     | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|------------------------------|----------------------|-----|--------|--------|-----------------------|
| Apartments Mid Rise          | 409,374              | 204 | 0.0330 | 0.0040 | 1,056,489             |
| General Office Building      | 573,162              | 204 | 0.0330 | 0.0040 | 643,063               |
| Unenclosed Parking Structure | 159,782              | 204 | 0.0330 | 0.0040 | 0.00                  |
| Parking Lot                  | 11,448               | 204 | 0.0330 | 0.0040 | 0.00                  |

### 5.11.2. Mitigated

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

| Land Use                     | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|------------------------------|----------------------|-----|--------|--------|-----------------------|
| Apartments Mid Rise          | 409,374              | 204 | 0.0330 | 0.0040 | 1,056,489             |
| General Office Building      | 573,162              | 204 | 0.0330 | 0.0040 | 643,063               |
| Unenclosed Parking Structure | 159,782              | 204 | 0.0330 | 0.0040 | 0.00                  |
| Parking Lot                  | 11,448               | 204 | 0.0330 | 0.0040 | 0.00                  |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use                     | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise          | 4,351,968               | 0.00                     |
| General Office Building      | 4,798,811               | 0.00                     |
| Unenclosed Parking Structure | 0.00                    | 0.00                     |
| Parking Lot                  | 0.00                    | 0.00                     |

## 5.12.2. Mitigated

| Land Use                     | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise          | 4,351,968               | 0.00                     |
| General Office Building      | 4,798,811               | 0.00                     |
| Unenclosed Parking Structure | 0.00                    | 0.00                     |
| Parking Lot                  | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

| Land Use                     | Waste (ton/year) | Cogeneration (kWh/year) |
|------------------------------|------------------|-------------------------|
| Apartments Mid Rise          | 88.8             | —                       |
| General Office Building      | 25.1             | —                       |
| Unenclosed Parking Structure | 0.00             | —                       |
| Parking Lot                  | 0.00             | —                       |

## 5.13.2. Mitigated

| Land Use                     | Waste (ton/year) | Cogeneration (kWh/year) |
|------------------------------|------------------|-------------------------|
| Apartments Mid Rise          | 88.8             | —                       |
| General Office Building      | 25.1             | —                       |
| Unenclosed Parking Structure | 0.00             | —                       |
| Parking Lot                  | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type           | Equipment Type                                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-------------------------|---------------------------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| Apartments Mid Rise     | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088 | < 0.005       | 2.50                 | 2.50              | 10.0           |
| Apartments Mid Rise     | Household refrigerators and/or freezers                 | R-134a      | 1,430 | 0.12          | 0.60                 | 0.00              | 1.00           |
| 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           |

#### 5.14.2. Mitigated

| Land Use Type           | Equipment Type                                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-------------------------|---------------------------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| Apartments Mid Rise     | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088 | < 0.005       | 2.50                 | 2.50              | 10.0           |
| Apartments Mid Rise     | Household refrigerators and/or freezers                 | R-134a      | 1,430 | 0.12          | 0.60                 | 0.00              | 1.00           |
| 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           |

### 5.15. Operational Off-Road Equipment

#### 5.15.1. Unmitigated

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

#### 5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
| —              | —         |

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 7.57                        | annual days of extreme heat                |
| Extreme Precipitation        | 6.10                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | 0.00                        | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |

|                         |   |   |   |   |
|-------------------------|---|---|---|---|
| Air Quality Degradation | 1 | 1 | 1 | 2 |
|-------------------------|---|---|---|---|

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator                       | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators             | —                               |
| AQ-Ozone                        | 10.6                            |
| AQ-PM                           | 24.5                            |
| AQ-DPM                          | 79.7                            |
| Drinking Water                  | 23.4                            |
| Lead Risk Housing               | 64.0                            |
| Pesticides                      | 0.00                            |
| Toxic Releases                  | 35.4                            |
| Traffic                         | 75.6                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 58.2                            |
| Groundwater                     | 95.7                            |
| Haz Waste Facilities/Generators | 94.9                            |
| Impaired Water Bodies           | 83.0                            |
| Solid Waste                     | 63.7                            |

|                                 |      |
|---------------------------------|------|
| Sensitive Population            | —    |
| Asthma                          | 51.6 |
| Cardio-vascular                 | 27.2 |
| Low Birth Weights               | 23.7 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 47.8 |
| Housing                         | 39.7 |
| Linguistic                      | 65.2 |
| Poverty                         | 28.4 |
| Unemployment                    | 18.3 |

## 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          | 66.93186193                     |
| Employed               | 79.81521879                     |
| Median HI              | 57.94944181                     |
| Education              | —                               |
| Bachelor's or higher   | 66.39291672                     |
| High school enrollment | 1.591171564                     |
| Preschool enrollment   | 80.84178109                     |
| Transportation         | —                               |
| Auto Access            | 20.53124599                     |
| Active commuting       | 91.64634929                     |
| Social                 | —                               |
| 2-parent households    | 79.72539458                     |

|                                              |             |
|----------------------------------------------|-------------|
| Voting                                       | 76.77402797 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 12.19042731 |
| Park access                                  | 81.35506224 |
| Retail density                               | 97.69023483 |
| Supermarket access                           | 85.87193635 |
| Tree canopy                                  | 65.69998717 |
| Housing                                      | —           |
| Homeownership                                | 28.53843193 |
| Housing habitability                         | 32.54202489 |
| Low-inc homeowner severe housing cost burden | 37.41819582 |
| Low-inc renter severe housing cost burden    | 82.29180033 |
| Uncrowded housing                            | 40.60053895 |
| Health Outcomes                              | —           |
| Insured adults                               | 29.96278712 |
| Arthritis                                    | 17.5        |
| Asthma ER Admissions                         | 42.4        |
| High Blood Pressure                          | 37.6        |
| Cancer (excluding skin)                      | 12.2        |
| Asthma                                       | 72.9        |
| Coronary Heart Disease                       | 21.3        |
| Chronic Obstructive Pulmonary Disease        | 47.8        |
| Diagnosed Diabetes                           | 58.5        |
| Life Expectancy at Birth                     | 68.2        |
| Cognitively Disabled                         | 29.3        |
| Physically Disabled                          | 54.0        |
| Heart Attack ER Admissions                   | 91.9        |

|                                       |      |
|---------------------------------------|------|
| Mental Health Not Good                | 73.6 |
| Chronic Kidney Disease                | 27.1 |
| Obesity                               | 70.8 |
| Pedestrian Injuries                   | 98.2 |
| Physical Health Not Good              | 60.5 |
| Stroke                                | 29.9 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 61.9 |
| Current Smoker                        | 74.7 |
| No Leisure Time for Physical Activity | 54.9 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 32.3 |
| Children                              | 55.0 |
| Elderly                               | 13.4 |
| English Speaking                      | 26.0 |
| Foreign-born                          | 78.6 |
| Outdoor Workers                       | 23.3 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 13.7 |
| Traffic Density                       | 75.4 |
| Traffic Access                        | 72.4 |
| Other Indices                         | —    |
| Hardship                              | 46.0 |
| Other Decision Support                | —    |
| 2016 Voting                           | 77.0 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 48.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 62.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                            | Justification                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------|
| Land Use                          | Lot acreage adjusted to match project site.                                           |
| Construction: Construction Phases | Building construction, paving and painting assumed to occur simultaneously.           |
| Construction: Demolition          | Hauling of demoed material assumed to occur over 2 phases.                            |
| Operations: Vehicle Data          | Trips updated to match traffic information provided by David J. Powers and Associates |

# **EXISTING BASELINE EMISSIONS MODELING OUTPUTS**

# Existing- San Mateo 9th Avenue 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                | Existing- San Mateo 9th Avenue        |
| Operational Year            | 2023                                  |
| Lead Agency                 | —                                     |
| Land Use Scale              | Project/site                          |
| Analysis Level for Defaults | County                                |
| Windspeed (m/s)             | 4.60                                  |
| Precipitation (days)        | 32.0                                  |
| Location                    | 477 9th Ave, San Mateo, CA 94402, USA |
| County                      | San Mateo                             |
| City                        | San Mateo                             |
| Air District                | Bay Area AQMD                         |
| Air Basin                   | San Francisco Bay Area                |
| TAZ                         | 1239                                  |
| EDFZ                        | 1                                     |
| Electric Utility            | Pacific Gas & Electric Company        |
| Gas Utility                 | Pacific Gas & Electric                |
| App Version                 | 2022.1.1.13                           |

## 1.2. Land Use Types

| Land Use Subtype        | Size | Unit     | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|-------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| General Office Building | 21.0 | 1000sqft | 0.48        | 21,000                | 0.00                   | —                              | —          | —           |

|             |      |       |      |      |      |   |   |   |
|-------------|------|-------|------|------|------|---|---|---|
| Parking Lot | 10.0 | Space | 0.09 | 0.00 | 0.00 | — | — | — |
|-------------|------|-------|------|------|------|---|---|---|

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

## 2. Emissions Summary

### 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | 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.              | 0.91 | 1.34 | 0.67 | 7.02 | 0.02    | 0.02    | 0.54  | 0.56  | 0.02    | 0.09   | 0.11   | 17.7 | 1,993 | 2,011 | 1.90 | 0.08 | 6.37 | 2,088 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.74 | 1.18 | 0.76 | 6.00 | 0.02    | 0.02    | 0.54  | 0.56  | 0.02    | 0.09   | 0.11   | 17.7 | 1,919 | 1,937 | 1.91 | 0.08 | 0.21 | 2,009 |
| Average Daily (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.81 | 1.24 | 0.73 | 6.21 | 0.02    | 0.02    | 0.54  | 0.56  | 0.02    | 0.09   | 0.11   | 17.7 | 1,924 | 1,942 | 1.91 | 0.08 | 2.78 | 2,016 |
| Annual (Max)        | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Unmit.              | 0.15 | 0.23 | 0.13 | 1.13 | < 0.005 | < 0.005 | 0.10  | 0.10  | < 0.005 | 0.02   | 0.02   | 2.93 | 319   | 322   | 0.32 | 0.01 | 0.46 | 334   |

### 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              | 0.73 | 0.67 | 0.53    | 6.00 | 0.02    | 0.01    | 0.54 | 0.55    | 0.01    | 0.09 | 0.10    | —    | 1,566 | 1,566 | 0.06    | 0.05    | 6.32 | 1,590 |
| Area                | 0.16 | 0.66 | 0.01    | 0.91 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 3.76  | 3.76  | < 0.005 | < 0.005 | —    | 3.77  |
| Energy              | 0.01 | 0.01 | 0.13    | 0.11 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 410   | 410   | 0.05    | 0.01    | —    | 413   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 7.15 | 13.5  | 20.7  | 0.74    | 0.02    | —    | 44.3  |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 10.5 | 0.00  | 10.5  | 1.05    | 0.00    | —    | 36.8  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.05 | 0.05  |
| Total               | 0.91 | 1.34 | 0.67    | 7.02 | 0.02    | 0.02    | 0.54 | 0.56    | 0.02    | 0.09 | 0.11    | 17.7 | 1,993 | 2,011 | 1.90    | 0.08    | 6.37 | 2,088 |
| Daily, Winter (Max) | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 0.72 | 0.66 | 0.63    | 5.89 | 0.01    | 0.01    | 0.54 | 0.55    | 0.01    | 0.09 | 0.10    | —    | 1,495 | 1,495 | 0.07    | 0.06    | 0.16 | 1,515 |
| Area                | —    | 0.51 | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Energy              | 0.01 | 0.01 | 0.13    | 0.11 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 410   | 410   | 0.05    | 0.01    | —    | 413   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 7.15 | 13.5  | 20.7  | 0.74    | 0.02    | —    | 44.3  |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 10.5 | 0.00  | 10.5  | 1.05    | 0.00    | —    | 36.8  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.05 | 0.05  |
| Total               | 0.74 | 1.18 | 0.76    | 6.00 | 0.02    | 0.02    | 0.54 | 0.56    | 0.02    | 0.09 | 0.11    | 17.7 | 1,919 | 1,937 | 1.91    | 0.08    | 0.21 | 2,009 |
| Average Daily       | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | —    | —     |
| Mobile              | 0.71 | 0.65 | 0.59    | 5.65 | 0.01    | 0.01    | 0.54 | 0.55    | 0.01    | 0.09 | 0.10    | —    | 1,499 | 1,499 | 0.06    | 0.06    | 2.73 | 1,520 |
| Area                | 0.08 | 0.58 | < 0.005 | 0.45 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 1.85  | 1.85  | < 0.005 | < 0.005 | —    | 1.86  |
| Energy              | 0.01 | 0.01 | 0.13    | 0.11 | < 0.005 | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | —    | 410   | 410   | 0.05    | 0.01    | —    | 413   |
| Water               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 7.15 | 13.5  | 20.7  | 0.74    | 0.02    | —    | 44.3  |
| Waste               | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | 10.5 | 0.00  | 10.5  | 1.05    | 0.00    | —    | 36.8  |
| Refrig.             | —    | —    | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —     | —     | —       | —       | 0.05 | 0.05  |
| Total               | 0.81 | 1.24 | 0.73    | 6.21 | 0.02    | 0.02    | 0.54 | 0.56    | 0.02    | 0.09 | 0.11    | 17.7 | 1,924 | 1,942 | 1.91    | 0.08    | 2.78 | 2,016 |

|         |         |         |         |      |         |         |      |         |         |      |         |      |      |      |         |         |      |      |
|---------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---------|------|------|------|---------|---------|------|------|
| Annual  | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Mobile  | 0.13    | 0.12    | 0.11    | 1.03 | < 0.005 | < 0.005 | 0.10 | 0.10    | < 0.005 | 0.02 | 0.02    | —    | 248  | 248  | 0.01    | 0.01    | 0.45 | 252  |
| Area    | 0.01    | 0.11    | < 0.005 | 0.08 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.31 | 0.31 | < 0.005 | < 0.005 | —    | 0.31 |
| Energy  | < 0.005 | < 0.005 | 0.02    | 0.02 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 67.9 | 67.9 | 0.01    | < 0.005 | —    | 68.4 |
| Water   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 1.18 | 2.24 | 3.42 | 0.12    | < 0.005 | —    | 7.34 |
| Waste   | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 1.74 | 0.00 | 1.74 | 0.17    | 0.00    | —    | 6.10 |
| Refrig. | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.01 | 0.01 |
| Total   | 0.15    | 0.23    | 0.13    | 1.13 | < 0.005 | < 0.005 | 0.10 | 0.10    | < 0.005 | 0.02 | 0.02    | 2.93 | 319  | 322  | 0.32    | 0.01    | 0.46 | 334  |

## 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 | 0.73 | 0.67 | 0.53 | 6.00 | 0.02 | 0.01  | 0.54  | 0.55  | 0.01   | 0.09   | 0.10   | —    | 1,566 | 1,566 | 0.06 | 0.05 | 6.32 | 1,590 |
| 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  |
| Total                   | 0.73 | 0.67 | 0.53 | 6.00 | 0.02 | 0.01  | 0.54  | 0.55  | 0.01   | 0.09   | 0.10   | —    | 1,566 | 1,566 | 0.06 | 0.05 | 6.32 | 1,590 |
| Daily, Winter (Max)     | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                         |      |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |      |       |
|-------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| General Office Building | 0.72 | 0.66 | 0.63 | 5.89 | 0.01    | 0.01    | 0.54 | 0.55 | 0.01    | 0.09 | 0.10 | — | 1,495 | 1,495 | 0.07 | 0.06 | 0.16 | 1,515 |
| 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  |
| Total                   | 0.72 | 0.66 | 0.63 | 5.89 | 0.01    | 0.01    | 0.54 | 0.55 | 0.01    | 0.09 | 0.10 | — | 1,495 | 1,495 | 0.07 | 0.06 | 0.16 | 1,515 |
| Annual                  | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| General Office Building | 0.13 | 0.12 | 0.11 | 1.03 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.02 | 0.02 | — | 248   | 248   | 0.01 | 0.01 | 0.45 | 252   |
| 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  |
| Total                   | 0.13 | 0.12 | 0.11 | 1.03 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.02 | 0.02 | — | 248   | 248   | 0.01 | 0.01 | 0.45 | 252   |

## 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 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 248   | 248  | 0.04    | < 0.005 | — | 251  |
| Parking Lot             | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 1.92  | 1.92 | < 0.005 | < 0.005 | — | 1.94 |
| Total                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 250   | 250  | 0.04    | < 0.005 | — | 253  |
| Daily, Winter (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |      |      |         |         |   |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|---------|---------|---|------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | 248  | 248  | 0.04    | < 0.005 | — | 251  |
| Parking Lot             | — | — | — | — | — | — | — | — | — | — | — | — | 1.92 | 1.92 | < 0.005 | < 0.005 | — | 1.94 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 250  | 250  | 0.04    | < 0.005 | — | 253  |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —       | —       | — | —    |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | 41.1 | 41.1 | 0.01    | < 0.005 | — | 41.5 |
| Parking Lot             | — | — | — | — | — | — | — | — | — | — | — | — | 0.32 | 0.32 | < 0.005 | < 0.005 | — | 0.32 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | 41.4 | 41.4 | 0.01    | < 0.005 | — | 41.9 |

#### 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 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 160   | 160  | 0.01 | < 0.005 | — | 160  |
| 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 |
| Total                   | 0.01 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 160   | 160  | 0.01 | < 0.005 | — | 160  |
| Daily, Winter (Max)     | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | — | —    |
| General Office Building | 0.01 | 0.01 | 0.13 | 0.11 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 160   | 160  | 0.01 | < 0.005 | — | 160  |

|                         |         |         |      |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|-------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| 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 |
| Total                   | 0.01    | 0.01    | 0.13 | 0.11 | < 0.005 | 0.01    | — | 0.01    | 0.01    | — | 0.01    | — | 160  | 160  | 0.01    | < 0.005 | — | 160  |
| Annual                  | —       | —       | —    | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| General Office Building | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | — | 26.5 |
| 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 |
| Total                   | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 26.5 | 26.5 | < 0.005 | < 0.005 | — | 26.5 |

### 4.3. Area Emissions by Source

#### 4.3.2. Unmitigated

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

| Source                 | 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      | —    | 0.45 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | — | —    |
| Architectural Coatings | —    | 0.06 | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | — | —    |
| Landscape Equipment    | 0.16 | 0.15 | 0.01 | 0.91 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 3.76  | 3.76 | < 0.005 | < 0.005 | — | 3.77 |
| Total                  | 0.16 | 0.66 | 0.01 | 0.91 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 3.76  | 3.76 | < 0.005 | < 0.005 | — | 3.77 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | — | —    |

|                                |      |      |         |      |         |         |   |         |         |   |         |   |      |      |         |         |   |      |
|--------------------------------|------|------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Consum<br>Products             | —    | 0.45 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coatings  | —    | 0.06 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Total                          | —    | 0.51 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Annual                         | —    | —    | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Consum<br>er<br>Products       | —    | 0.08 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Architect<br>ural<br>Coatings  | —    | 0.01 | —       | —    | —       | —       | — | —       | —       | — | —       | — | —    | —    | —       | —       | — | —    |
| Landsca<br>pe<br>Equipme<br>nt | 0.01 | 0.01 | < 0.005 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.31 | 0.31 | < 0.005 | < 0.005 | — | 0.31 |
| Total                          | 0.01 | 0.11 | < 0.005 | 0.08 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.31 | 0.31 | < 0.005 | < 0.005 | — | 0.31 |

## 4.4. Water Emissions by Land Use

### 4.4.2. Unmitigated

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

| Land<br>Use                   | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General<br>Office<br>Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 7.15 | 13.5  | 20.7 | 0.74 | 0.02 | — | 44.3 |
| Parking<br>Lot                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

|                               |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |         |   |      |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Total                         | — | — | — | — | — | — | — | — | — | — | — | 7.15 | 13.5 | 20.7 | 0.74 | 0.02    | — | 44.3 |
| Daily,<br>Winter<br>(Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| General<br>Office<br>Building | — | — | — | — | — | — | — | — | — | — | — | 7.15 | 13.5 | 20.7 | 0.74 | 0.02    | — | 44.3 |
| Parking<br>Lot                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                         | — | — | — | — | — | — | — | — | — | — | — | 7.15 | 13.5 | 20.7 | 0.74 | 0.02    | — | 44.3 |
| Annual                        | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —       | — | —    |
| General<br>Office<br>Building | — | — | — | — | — | — | — | — | — | — | — | 1.18 | 2.24 | 3.42 | 0.12 | < 0.005 | — | 7.34 |
| Parking<br>Lot                | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | — | 0.00 |
| Total                         | — | — | — | — | — | — | — | — | — | — | — | 1.18 | 2.24 | 3.42 | 0.12 | < 0.005 | — | 7.34 |

## 4.5. Waste Emissions by Land Use

### 4.5.2. Unmitigated

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

| Land Use                      | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|-------------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily,<br>Summer<br>(Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General<br>Office<br>Building | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 10.5 | 0.00  | 10.5 | 1.05 | 0.00 | — | 36.8 |
| Parking<br>Lot                | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                         | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 10.5 | 0.00  | 10.5 | 1.05 | 0.00 | — | 36.8 |

|                         |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Daily, Winter (Max)     | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | 10.5 | 0.00 | 10.5 | 1.05 | 0.00 | — | 36.8 |
| Parking Lot             | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 10.5 | 0.00 | 10.5 | 1.05 | 0.00 | — | 36.8 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | —    | — | —    |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | 1.74 | 0.00 | 1.74 | 0.17 | 0.00 | — | 6.10 |
| Parking Lot             | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | 1.74 | 0.00 | 1.74 | 0.17 | 0.00 | — | 6.10 |

## 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 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.05 | 0.05 |
| Total                   | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.05 | 0.05 |
| Daily, Winter (Max)     | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |

|                         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |      |      |
|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Annual                  | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    |
| General Office Building | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |
| Total                   | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.01 |

## 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               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.8. 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               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.9. 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               | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

## 4.10. 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            | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | — | —    |

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequest     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove<br>d | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 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 | 211           | 211            | 211          | 76,957     | 1,975       | 1,975        | 1,975      | 721,039  |
| Parking Lot             | 0.00          | 0.00           | 0.00         | 0.00       | 0.00        | 0.00         | 0.00       | 0.00     |

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

#### 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                                     | 31,500                                       | 10,500                                       | 235                         |

#### 5.10.3. Landscape Equipment

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

| Land Use                | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-------------------------|----------------------|-----|--------|--------|-----------------------|
| General Office Building | 444,541              | 204 | 0.0330 | 0.0040 | 498,756               |
| Parking Lot             | 3,434                | 204 | 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 | 3,732,409               | 0.00                     |
| Parking Lot             | 0.00                    | 0.00                     |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use                | Waste (ton/year) | Cogeneration (kWh/year) |
|-------------------------|------------------|-------------------------|
| General Office Building | 19.5             | —                       |
| Parking Lot             | 0.00             | —                       |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type           | Equipment Type                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-------------------------|-----------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| 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           |

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

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

## 5.16. Stationary Sources

## 5.16.1. Emergency Generators and Fire Pumps

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

## 5.16.2. Process Boilers

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

## 5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
| —              | —         |

## 5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 7.57                        | annual days of extreme heat                |
| Extreme Precipitation        | 6.10                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | 0.00                        | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 2              | 0                 | 0                       | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | N/A                 |

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard               | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|------------------------------|----------------|-------------------|-------------------------|---------------------|
| Temperature and Extreme Heat | N/A            | N/A               | N/A                     | N/A                 |
| Extreme Precipitation        | 2              | 1                 | 1                       | 3                   |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

| Indicator           | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | —                               |
| AQ-Ozone            | 10.6                            |
| AQ-PM               | 24.5                            |
| AQ-DPM              | 79.7                            |
| Drinking Water      | 23.4                            |
| Lead Risk Housing   | 64.0                            |
| Pesticides          | 0.00                            |
| Toxic Releases      | 35.4                            |
| Traffic             | 75.6                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 58.2                            |
| Groundwater         | 95.7                            |

|                                 |      |
|---------------------------------|------|
| Haz Waste Facilities/Generators | 94.9 |
| Impaired Water Bodies           | 83.0 |
| Solid Waste                     | 63.7 |
| Sensitive Population            | —    |
| Asthma                          | 51.6 |
| Cardio-vascular                 | 27.2 |
| Low Birth Weights               | 23.7 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 47.8 |
| Housing                         | 39.7 |
| Linguistic                      | 65.2 |
| Poverty                         | 28.4 |
| Unemployment                    | 18.3 |

## 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          | 66.93186193                     |
| Employed               | 79.81521879                     |
| Median HI              | 57.94944181                     |
| Education              | —                               |
| Bachelor's or higher   | 66.39291672                     |
| High school enrollment | 1.591171564                     |
| Preschool enrollment   | 80.84178109                     |
| Transportation         | —                               |
| Auto Access            | 20.53124599                     |

|                                              |             |
|----------------------------------------------|-------------|
| Active commuting                             | 91.64634929 |
| Social                                       | —           |
| 2-parent households                          | 79.72539458 |
| Voting                                       | 76.77402797 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 12.19042731 |
| Park access                                  | 81.35506224 |
| Retail density                               | 97.69023483 |
| Supermarket access                           | 85.87193635 |
| Tree canopy                                  | 65.69998717 |
| Housing                                      | —           |
| Homeownership                                | 28.53843193 |
| Housing habitability                         | 32.54202489 |
| Low-inc homeowner severe housing cost burden | 37.41819582 |
| Low-inc renter severe housing cost burden    | 82.29180033 |
| Uncrowded housing                            | 40.60053895 |
| Health Outcomes                              | —           |
| Insured adults                               | 29.96278712 |
| Arthritis                                    | 17.5        |
| Asthma ER Admissions                         | 42.4        |
| High Blood Pressure                          | 37.6        |
| Cancer (excluding skin)                      | 12.2        |
| Asthma                                       | 72.9        |
| Coronary Heart Disease                       | 21.3        |
| Chronic Obstructive Pulmonary Disease        | 47.8        |
| Diagnosed Diabetes                           | 58.5        |
| Life Expectancy at Birth                     | 68.2        |

|                                       |      |
|---------------------------------------|------|
| Cognitively Disabled                  | 29.3 |
| Physically Disabled                   | 54.0 |
| Heart Attack ER Admissions            | 91.9 |
| Mental Health Not Good                | 73.6 |
| Chronic Kidney Disease                | 27.1 |
| Obesity                               | 70.8 |
| Pedestrian Injuries                   | 98.2 |
| Physical Health Not Good              | 60.5 |
| Stroke                                | 29.9 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 61.9 |
| Current Smoker                        | 74.7 |
| No Leisure Time for Physical Activity | 54.9 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 32.3 |
| Children                              | 55.0 |
| Elderly                               | 13.4 |
| English Speaking                      | 26.0 |
| Foreign-born                          | 78.6 |
| Outdoor Workers                       | 23.3 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 13.7 |
| Traffic Density                       | 75.4 |
| Traffic Access                        | 72.4 |
| Other Indices                         | —    |
| Hardship                              | 46.0 |

|                        |      |
|------------------------|------|
| Other Decision Support | —    |
| 2016 Voting            | 77.0 |

### 7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 48.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 62.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                   | Justification                                                                          |
|--------------------------|----------------------------------------------------------------------------------------|
| Operations: Vehicle Data | Trips update to match daily traffic volumes provided by David J. Powers and Associates |