

Greenhouse Gas Emissions Assessment
Related Bristol Specific Plan Project
Santa Ana, California

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LIST OF ABBREVIATED TERMS

| | |
|----------------------|---|
| AB | Assembly Bill |
| CARB | California Air Resource Board |
| CCR | California Code of Regulations |
| CalEEMod | California Emissions Estimator Model |
| CEQA | California Environmental Quality Act |
| CALGreen Code | California Green Building Standards Code |
| CPUC | California Public Utilities Commission |
| CO ₂ | carbon dioxide |
| CO ₂ e | carbon dioxide equivalent |
| CFC | Chlorofluorocarbon |
| CCSP | Climate Change Scoping Plan |
| cy | cubic yard |
| FCAA | Federal Clean Air Act |
| FR | Federal Register |
| GHG | greenhouse gas |
| HCFC | Hydrochlorofluorocarbon |
| HFC | Hydrofluorocarbon |
| LCFS | Low Carbon Fuel Standard |
| CH ₄ | Methane |
| MMTCO ₂ e | million metric tons of carbon dioxide equivalent |
| MTCO ₂ e | metric tons of carbon dioxide equivalent |
| NHTSA | National Highway Traffic Safety Administration |
| NF ₃ | nitrogen trifluoride |
| N ₂ O | nitrous oxide |
| PFC | Perfluorocarbon |
| RTP/SCS | Regional Transportation Plan/Sustainable Communities Strategy |
| SB | Senate Bill |
| SCAB | South Coast Air Basin |
| SCAQMD | South Coast Air Quality Management District |
| SCAG | Southern California Association of Government |
| Sf | square foot |
| SF ₆ | sulfur hexafluoride |
| TAC | toxic air contaminants |
| U.S. EPA | United States Environmental Protection Agency |

1 INTRODUCTION

This report documents the results of a Greenhouse Gas (GHG) Emissions Assessment completed for The Related Bristol Specific Plan Project (Project). The purpose of this GHG Emissions Assessment is to evaluate the potential construction and operational emissions associated with the Project and determine the level of impact the Project would have on the environment.

This analysis has been undertaken to analyze whether the proposed Project would result in any new or substantially more severe significant environmental impacts as compared to the conclusions discussed in the certified final Santa Ana General Plan Update Program Environmental Impact Report (General Plan EIR) (State Clearinghouse No. 2020029087). The purpose of this analysis is to support a Supplemental EIR that will document whether any new GHG-related impacts would occur from the Project (described below) compared to the impacts and analyses identified in the General Plan EIR pursuant to State California Environmental Quality Act (CEQA) Guidelines Section 15162 (et seq.).

1.1 Project Location

The project site is in the south portion of the City of Santa Ana (City). The approximately 41.13-gross-acre project site is bordered by MacArthur Boulevard to the north, Sunflower Avenue to the south, and Bristol Street to the east. The west side of the site is bordered by Plaza Drive between MacArthur Boulevard and Callen's Common and by existing development between Callen's Common and Sunflower Avenue to the west.

Vehicular access to the project site, which is currently developed as a predominately commercial shopping center, is provided from Bristol Street, Callen's Common, MacArthur Boulevard, Sunflower Avenue, and Plaza Drive.

Regional access to the project site is provided from Interstate 405 (I-405) from the onramp/offramp at Bristol Street approximately 0.5 mile to the south and from State Route 55 (SR-55) from the onramp/offramp at MacArthur Boulevard approximately 1.25 miles to the east. The site is approximately 1.5 miles northwest of John Wayne Airport; see **Exhibit 1: Regional Vicinity Map** and **Exhibit 2: Site Vicinity Map**.

1.2 Project Description

The Project would demolish the existing shopping center (approximately 465,063 square feet [sf]) and related infrastructure to allow for a mixed-use development. As shown in **Table 1: Land Use Summary**, the Project proposes 3,750 multi-family residential units; 350,000 sf of commercial uses; a 250-key hotel; a senior living/continuum of care use with 200 units; and approximately 13 acres of common open space. Parking would be provided by above- and below-ground parking structures providing shared parking; refer to **Exhibit 3: Conceptual Site Plan**.

The Project would be constructed in three phases. Construction of the Project may be progressively implemented in stages, provided that vehicular access, public facilities, and infrastructure are constructed to adequately serve the development. The project site would be graded and excavated in phases. The total export is expected to be approximately 1,340,325 cubic yards (cy) with an import of approximately 10,000 cy. Phase 1 export is approximately 640,550 cy and import is approximately 5,000 cy. Phase 2 export is approximately 214,906 cy and import is approximately 2,000 cy. Phase 3 export is approximately

484,869 cy and import is approximately 3,000 cy. It is anticipated that dewatering would be required due to high groundwater levels in the area. In addition to export and import associated with grading and excavation, all of the existing buildings, pavement, and improvements would be demolished with each phase of construction and exported from the project site.

| Land Use | Proposed Development | Existing Development |
|---|-----------------------------|-----------------------------|
| Residential | 3,750 du | 0 |
| Senior Living/Continuum of Care | 200 units | 0 |
| Hotel | 250 keys | 0 |
| Commercial | 350,000 gsf | 465,063 sf |
| Open Space (Common) | 13.1 acres | 0 |
| du = dwelling unit; gsf = gross square feet; sf = square feet | | |

The Project is anticipated to be implemented over a period of approximately nine years with demolition and construction activities anticipated to commence in the first quarter of 2026 and construction completed in the third quarter of 2036. Construction of Phase 1 is expected to commence in the first quarter of 2026 with completion in the first quarter of 2030 or approximately 42 months. Land uses in the Phase 2 and Phase 3 areas would be operational while Phase 1 is under construction. Phase 2 is expected to commence in the second quarter of 2030 with completion in the fourth quarter of 2032 or approximately 44 months. Phase 3 is expected to commence in the first quarter of 2033 with completion in the second quarter of 2036 or approximately 40 months.

The Phase 1 area is located south of Callen’s Common and extends to Sunflower Avenue. Phase 2 and Phase 3 are located north of Callen’s Common and extend to MacArthur Boulevard. The Phase 2 area is approximately one-third of the northern portion of the project site and is bordered by MacArthur Boulevard to the north, Callen’s Common to the south, Bristol Street to the east, and Phase 3 of the proposed project to the west. The Phase 3 area is bordered by MacArthur Boulevard to the north, Callen’s Common to the south, Phase 2 to the east, and Plaza Drive to the west.

Phase 1 includes the demolition of all on-site buildings and infrastructure on the southern portion of the project site bordered by Callen’s Common to the north. Subsurface excavation would occur to allow for the construction of up to two levels of subterranean parking. Phase 1 assumes the construction of 1,375 multi-family residential units, 250,000 sf of retail uses, a 250-key hotel, a 200-unit senior living/continuum of care building, and a public open space area, as well as associated landscape improvements and infrastructure upgrades. All existing on-site development north of Callen’s Common would remain operational during Phase 1.

Phase 2 includes the demolition of all on-site buildings and infrastructure within the Phase 2 area of the site. Subsurface excavation would occur to allow for the construction of up to two levels of subterranean parking. No subterranean parking would be located under the Bristol Central Park (described below). Phase 2 assumes the construction of 856 multi-family residential units, 65,000 sf of retail uses, public open space areas, as well as associated landscape improvements and infrastructure upgrades.

Phase 3 includes the demolition on-site buildings and infrastructure within the Phase 3 area of the site. Subsurface excavation would occur to allow for the construction of one level of subterranean parking. No

subterranean parking would be located under the Bristol Central Park (described below). Phase 3 assumes the construction of 1,519 multi-family residential units, 35,000 sf of retail uses, public open space areas, as well as associated landscape improvements and infrastructure upgrades; refer to **Table 2: Conceptual Phasing**.

| Use | Mixed-Use/ Village Core District | Mixed-Use/ Residential District | | Total |
|----------------------------------|-------------------------------------|------------------------------------|---------|---------|
| | Phase 1 | Phase 2 | Phase 3 | |
| Residential (units) | 1,375 | 856 | 1,519 | 3,750 |
| Commercial (gsf) | 250,000 | 65,000 | 35,000 | 350,000 |
| Hospitality (keys) | 250 | -- | -- | 250 |
| Senior/Continuum of Care (units) | 200 | -- | -- | 200 |

gsf = gross square feet

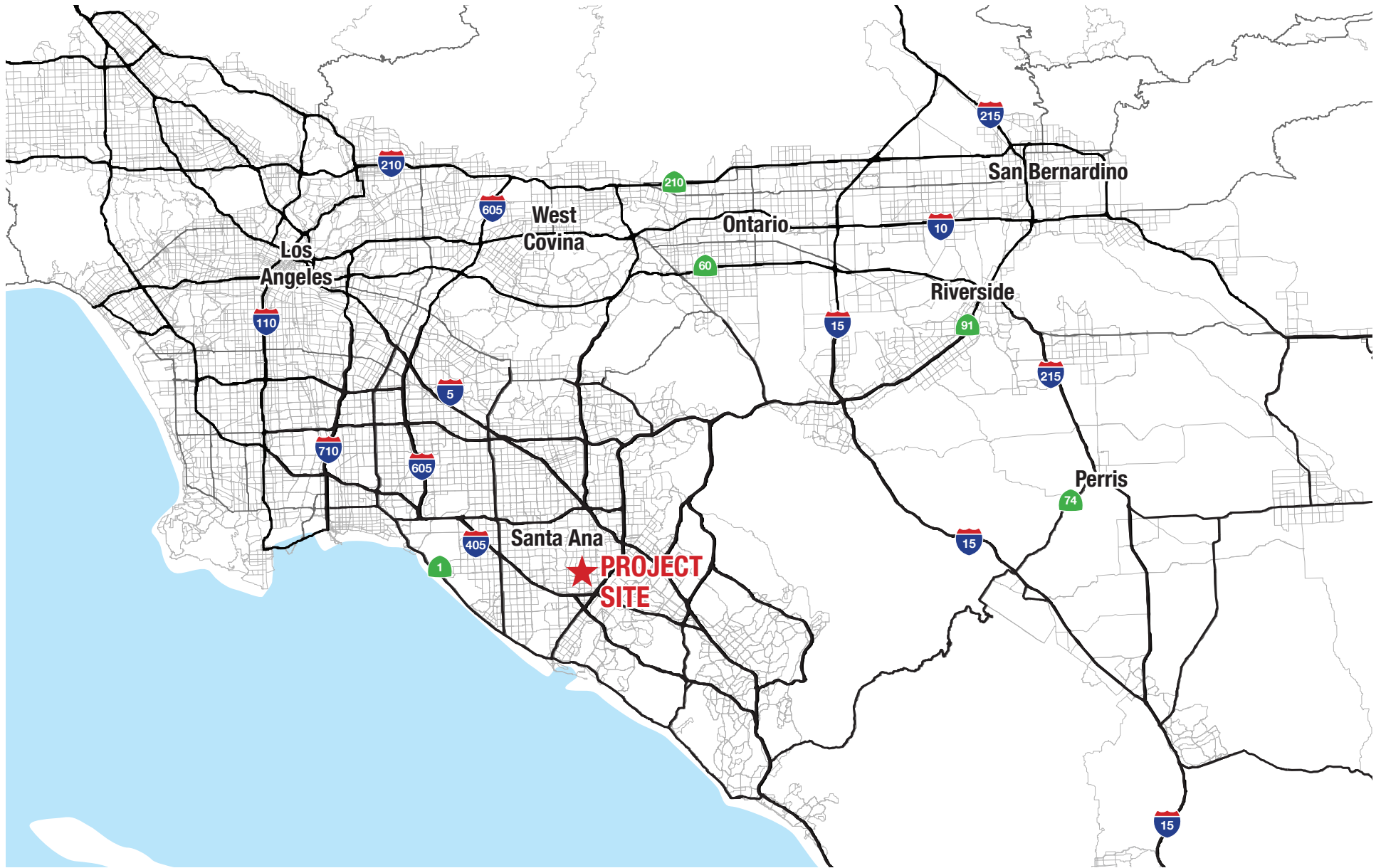


EXHIBIT 1: Regional Vicinity Map
Related Bristol
City of Santa Ana

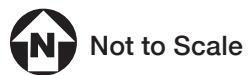
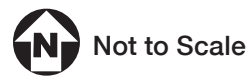




EXHIBIT 2: Site Vicinity Map
Related Bristol
City of Santa Ana



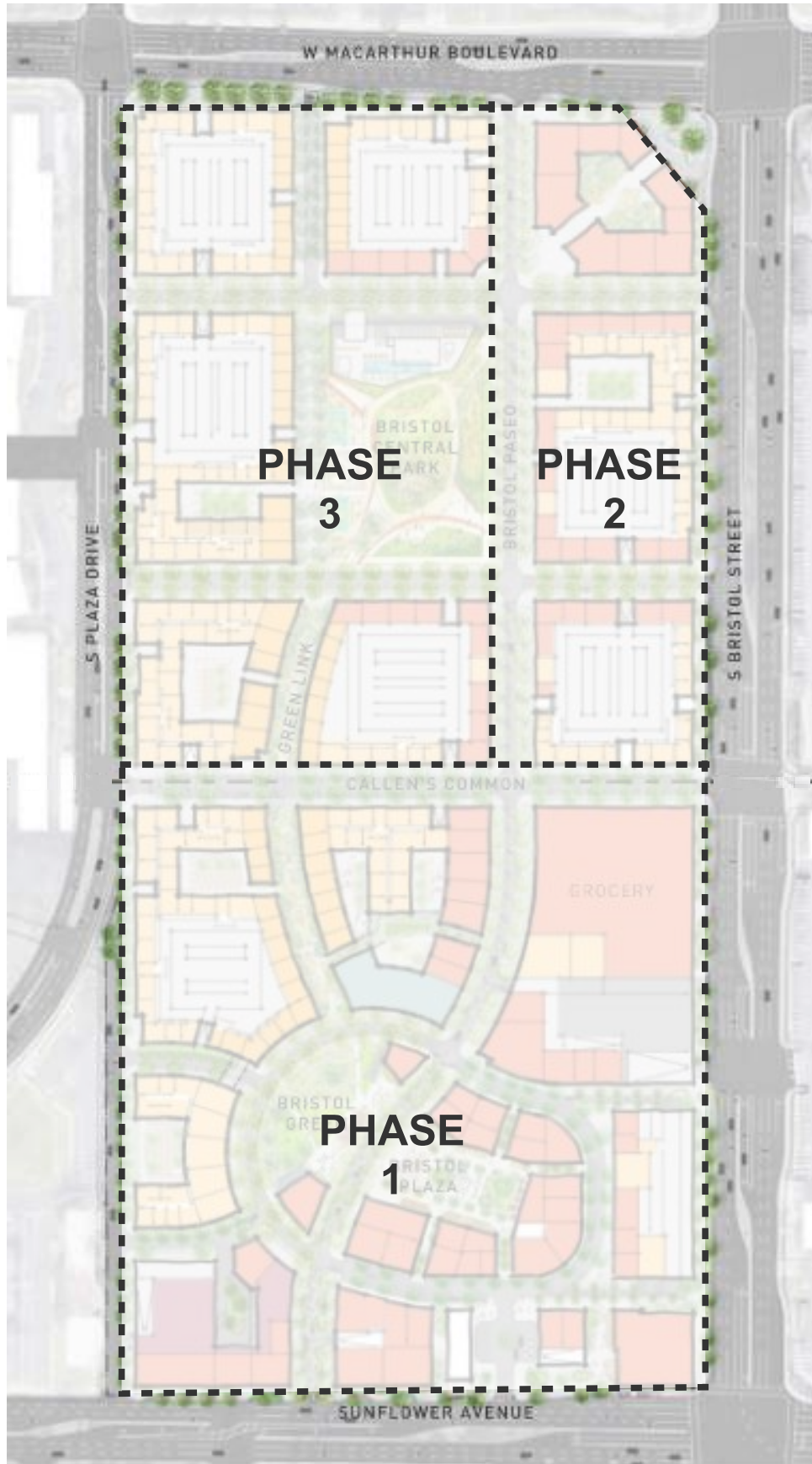
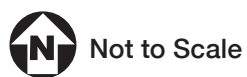


EXHIBIT 3: Conceptual Site Plan
Related Bristol
City of Santa Ana



2 ENVIRONMENTAL SETTING

2.1 Greenhouse Gases and Climate Change

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.

The primary GHGs contributing to the greenhouse effect are carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding 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.

GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants (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 a GHG molecule is dependent on multiple variables and cannot be pinpointed, more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused CO₂ emissions, approximately 55 percent is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45 percent of human-caused CO₂ emissions remains stored in the atmosphere¹. **Table 3: Description of Greenhouse Gases** describes the primary GHGs attributed to global climate change, including their physical properties.

¹ Intergovernmental Panel on Climate Change, *Carbon and Other Biogeochemical Cycles*. In: *Climate Change 2013: The Physical Science Basis, Contribution of Working Group I to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2013. http://www.climatechange2013.org/images/report/WG1AR5_ALL_FINAL.pdf.

| Greenhouse Gas | Description |
|---|---|
| Carbon Dioxide (CO ₂) | CO ₂ is a colorless, odorless gas that is emitted naturally and through human activities. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. The largest source of CO ₂ emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, and industrial facilities. The atmospheric lifetime of CO ₂ is variable because it is readily exchanged in the atmosphere. CO ₂ is the most widely emitted GHG and is the reference gas (Global Warming Potential of 1) for determining Global Warming Potentials for other GHGs. |
| Nitrous Oxide (N ₂ O) | N ₂ O is largely attributable to agricultural practices and soil management. Primary human-related sources of N ₂ O include agricultural soil management, sewage treatment, combustion of fossil fuels, and adipic and nitric acid production. N ₂ O is produced from biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N ₂ O is approximately 120 years. The Global Warming Potential of N ₂ O is 298. |
| Methane (CH ₄) | CH ₄ , a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. Methane is the major component of natural gas, about 87 percent by volume. Human-related sources include fossil fuel production, animal husbandry, rice cultivation, biomass burning, and waste management. Natural sources of CH ₄ include wetlands, gas hydrates, termites, oceans, freshwater bodies, non-wetland soils, and wildfires. The atmospheric lifetime of CH ₄ is about 12 years and the Global Warming Potential is 25. |
| Hydrofluorocarbons (HFCs) | HFCs are typically used as refrigerants for both stationary refrigeration and mobile air conditioning. The use of HFCs for cooling and foam blowing is increasing, as the continued phase out of CFCs and HCFCs gains momentum. The 100-year Global Warming Potential of HFCs range from 124 for HFC-125 to 14,800 for HFC-23. |
| Perfluorocarbons (PFCs) | PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above Earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Two main sources of PFCs are primary aluminum production and semiconductor manufacturing. Global Warming Potentials range from 6,500 to 9,200. |
| Chlorofluorocarbons (CFCs) | CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited their production in 1987. Global Warming Potentials for CFCs range from 3,800 to 14,400. |
| Sulfur Hexafluoride (SF ₆) | SF ₆ is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. The Global Warming Potential of SF ₆ is 23,900. |
| Hydrochlorofluorocarbons (HCFCs) | HCFCs are solvents, similar in use and chemical composition to CFCs. The main uses of HCFCs are for refrigerant products and air conditioning systems. As part of the Montreal Protocol, HCFCs are subject to a consumption cap and gradual phase out. The United States is scheduled to achieve a 100 percent reduction to the cap by 2030. The 100-year Global Warming Potentials of HCFCs range from 90 for HCFC-123 to 1,800 for HCFC-142b. |
| Nitrogen Trifluoride (NF ₃) | NF ₃ was added to Health and Safety Code section 38505(g)(7) as a GHG of concern. This gas is used in electronics manufacture for semiconductors and liquid crystal displays. It has a high global warming potential of 17,200. |
| Source: Compiled from U.S. EPA, <i>Overview of Greenhouse Gases</i> , (https://www.epa.gov/ghgemissions/overview-greenhouse-gases), accessed 2-5-2020; U.S. EPA, <i>Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016</i> , 2018; Intergovernmental Panel on Climate Change, <i>Climate Change 2007: The Physical Science Basis</i> , 2007; National Research Council, <i>Advancing the Science of Climate Change</i> , 2010; U.S. EPA, <i>Methane and Nitrous Oxide Emission from Natural Sources</i> , April 2010. | |

3 REGULATORY SETTING

3.1 Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

U.S. Environmental Protection Agency Endangerment Finding

The U.S. Environmental Protection Agency (U.S. EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. U.S. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the U.S. EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing FCAA and the U.S. EPA's assessment of the scientific evidence that form the basis for the U.S. EPA's regulatory actions.

Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the U.S. EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the U.S. EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, U.S. EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the U.S. EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–

2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO₂ in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the U.S. EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO₂ emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the U.S. EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baselines.

In August 2016, the U.S. EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program applies to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards lower CO₂ emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to two billion barrels over the lifetime of the vehicles sold under the program.²

On September 27, 2019, the U.S. EPA and the NHTSA published the “Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program.” (84 Fed. Reg. 51,310 (Sept. 27, 2019).)³ The SAFE Rule (Part One) revoked California’s authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, the U.S. EPA and NHTSA finalized rulemaking for SAFE Part Two sets CO₂ emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021-2026. The current U.S. EPA administration repealed SAFE Rule Part One, effective January 28, 2022 and is reconsidering Part Two.

In December 2021, the U.S. EPA finalized federal GHG emissions standards for passenger cars and light trucks for Model Years 2023 through 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector and are based on sound science and grounded in a rigorous assessment of current and future technologies. The updated standards will result in avoiding more than three billion tons of GHG emissions through 2050.⁴

3.2 State of California

California Air Resources Board

The California Air Resources Board (CARB) is responsible for the coordination and oversight of State and local air pollution control programs in California. Various statewide and local initiatives to reduce California’s contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant

² U.S. EPA and NHTSA, *Greenhouse Gas Emissions and Fuel Efficiency Standards for Medium and Heavy-Duty Engines and Vehicles – Phase 2*, 2016. Available at: <https://www.gpo.gov/fdsys/pkg/FR-2016-10-25/pdf/2016-21203.pdf>. Accessed: January 2023.

³ U.S. EPA and NHTSA, Federal Register, Vol. 84, No. 188, *The Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program*, September 27, 2019. Available at: <https://www.govinfo.gov/content/pkg/FR-2019-09-27/pdf/2019-20672.pdf>. Accessed: January 2023.

⁴ U.S. EPA, *Final Rule to Revise Existing National GHG Emissions Standards for Passenger Cars and Light Trucks Through Model Year 2026*, 2021. Available at: <https://www.epa.gov/regulations-emissions-vehicles-and-engines/final-rule-revise-existing-national-ghg-emissions>. Accessed: January 2023.

emitter of CO₂ equivalents (CO₂e) in the world and produced 369 gross million metric tons (MMT) of CO₂e in 2020.⁵ The transportation sector is the State's largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

The State of California legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation, such as the landmark Assembly Bill (AB) 32, *California Global Warming Solutions Act of 2006*, was specifically enacted to address GHG emissions. Other legislation, such as Title 24 building efficiency standards and Title 20 appliance energy standards, were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the legislation's major provisions.

Assembly Bill 32 (California Global Warming Solutions Act of 2006)

AB 32 instructs the CARB to develop and enforce regulations for the reporting and verifying of statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

California Air Resource Board Scoping Plan

CARB adopted the Scoping Plan to achieve the AB 32 goals. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29 percent below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business-as-usual")⁶. The Scoping Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the State's Climate Action Team, identifies additional measures to be pursued as regulations, and outlines the adopted role of a cap-and-trade program⁷. Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key Scoping Plan elements include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33 percent by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85 percent of California's GHG emissions (adopted in 2011).
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets (several sustainable community strategies have been adopted).

⁵ California Air Resources Board, *Current California GHG Emissions Inventory Data, 2000-2020 GHG inventory (2022 Edition)*, <https://ww2.arb.ca.gov/ghg-inventory-data>, accessed December 2022.

⁶ CARB defines business-as-usual (BAU) in its Scoping Plan as emissions levels that would occur if California continued to grow and add new GHG emissions but did not adopt any measures to reduce emissions. Projections for each emission-generating sector were compiled and used to estimate emissions for 2020 based on 2002–2004 emissions intensities. Under CARB's definition of BAU, new growth is assumed to have the same carbon intensities as was typical from 2002 through 2004.

⁷ The Climate Action Team, led by the secretary of the California Environmental Protection Agency, is a group of State agency secretaries and heads of agencies, boards, and departments. Team members work to coordinate statewide efforts to implement global warming emissions reduction programs and the State's Climate Adaptation Strategy.

- Adopting and implementing measures pursuant to existing State laws and policies, including California's clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation.
- The California Sustainable Freight Action Plan was developed in 2016 and provides a vision for California's transition to a more efficient, more economically competitive, and less polluting freight transport system. This transition of California's freight transport system is essential to supporting the State's economic development in coming decades while reducing pollution.
- CARB's Mobile Source Strategy demonstrates how the State can simultaneously meet air quality standards, achieve GHG emission reduction targets, decrease health risk from transportation emissions, and reduce petroleum consumption over the next fifteen years. The mobile Source Strategy includes increasing ZEV buses and trucks.

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated in light of current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 MMTCO₂e to 545 MMTCO₂e. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7 percent, down from 29 percent. CARB also provided a lower 2020 inventory forecast that incorporated State-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16 percent.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. The updated Scoping Plan summarizes the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32. By 2016, California had reduced GHG emissions below 1990 levels, achieving AB 32's 2020 goal four years ahead of schedule.

In 2016, the Legislature passed Senate Bill (SB) 32, which codifies a 2030 GHG emissions reduction target of 40 percent below 1990 levels. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017 CARB adopted a second update to the Scoping Plan⁸. The 2017 Scoping Plan details how the State will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017 Scoping Plan are to provide direct GHG emissions reductions; support climate investment in disadvantaged communities; and support the Clean Power Plan and other Federal actions.

⁸ California Air Resources Board, *California's 2017 Climate Change Scoping Plan*, https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf. Accessed May 9, 2018.

The 2022 Scoping Plan's goal is to achieve carbon neutrality and reduce GHG emissions by 85 percent below 1990 levels and by 2045, as directed by Assembly Bill 1279. The 2022 Scoping Plan sets one of the most aggressive approaches to reach carbon neutrality in the world. The actions and outcomes in the Scoping Plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

Senate Bill 32 (California Global Warming Solutions Act of 2006: Emissions Limit)

Signed into law in September 2016, SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40 percent below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions.

SB 375 (The Sustainable Communities and Climate Protection Act of 2008)

Signed into law on September 30, 2008, SB 375 provides a process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet AB 32's GHG reduction goals established. SB 375 requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, aligns planning for transportation and housing, and creates specified incentives for the implementation of the strategies.

AB 1493 (Pavley Regulations and Fuel Efficiency Standards)

AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the U.S. EPA's denial of an implementation waiver. The U.S. EPA subsequently granted the requested waiver in 2009, which was upheld by the U.S. District Court for the District of Columbia in 2011. The regulations establish one set of emission standards for passenger vehicle and light duty truck model years 2009–2016 and a second set of emissions standards for model years 2017 to 2025. By 2025, when all rules will be fully implemented, new passenger vehicles are anticipated to emit 34 percent fewer CO₂e emissions and 75 percent fewer smog-forming emissions.

SB 1368 (Emission Performance Standards)

SB 1368, which is AB 32's companion bill, directs the California Public Utilities Commission (CPUC) to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 limits carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the State. The CPUC adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, for 1,100 pounds of CO₂ per megawatt-hour.

SB 1078, SB 107, and SBX1-2 (Renewable Electricity Standards)

SB 1078 (2002) required California to generate 20 percent of its electricity from renewable energy by 2017. SB 107 (2006) changed the due date to 2010 instead of 2017. On November 17, 2008, Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established a Renewable Portfolio

Standard target for California requiring that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020. Executive Order S-21-09 also directed CARB to adopt a regulation by July 31, 2010, requiring the State's load serving entities to meet a 33 percent renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010 by Resolution 10-23. SBX1-2 (2011) codified the 33 percent by 2020 goal.

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

Signed into law on October 7, 2015, SB 350 implements Executive Order B-30-15's goal. The SB 350 objectives are to increase the procurement of electricity from renewable sources from 33 percent to 50 percent (with interim targets of 40 percent by 2024, and 25 percent by 2027) and to double the energy efficiency savings in electricity and natural gas end uses of retail customers through energy efficiency and conservation. SB 350 also reorganizes the Independent System Operator to develop more regional electricity transmission markets and improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

AB 398 (Market-Based Compliance Mechanisms)

Signed on July 25, 2017, AB 398 extended the duration of the Cap-and-Trade program from 2020 to 2030. AB 398 required CARB to update the Scoping Plan and for all GHG rules and regulations adopted by the State. It also designated CARB as the statewide regulatory body responsible for ensuring that California meets its statewide carbon pollution reduction targets, while retaining local air districts' responsibility and authority to curb toxic air contaminants and criteria pollutants from local sources that severely impact public health. AB 398 also decreased free carbon allowances over 40 percent by 2030 and prioritized Cap-and-Trade spending to various programs including reducing diesel emissions in impacted communities.

SB 150 (Regional Transportation Plans)

Signed on October 10, 2017, SB 150 aligns local and regional GHG reduction targets with State targets (i.e., 40 percent below their 1990 levels by 2030). SB 150 creates a process to include communities in discussions on how to monitor their regions' progress on meeting these goals. The bill also requires the CARB to regularly report on that progress, as well as on the successes and the challenges regions experience associated with achieving their targets. SB 150 provides for accounting of climate change efforts and GHG reductions and identify effective reduction strategies.

SB 100 (California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases)

Signed into law in September 2018, SB 100 increased California's renewable electricity portfolio from 50 to 60 percent by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045.

AB 1346 (Air Pollution: Small Off-Road Engines)

Signed into Law in October 2021, AB 1346 requires CARB, to adopt cost-effective and technologically feasible regulations to prohibit engine exhaust and evaporative emissions from new small off-road engines, consistent with federal law, by July 1, 2022. The bill requires CARB to identify and, to the extent feasible, make available funding for commercial rebates or similar incentive funding as part of any updates to existing applicable funding program guidelines to local air pollution control districts and air quality management districts to implement to support the transition to zero-emission small off-road equipment operations.

AB 1279 (The California Climate Crisis Act)

AB 1279 establishes the policy of the State to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045 statewide anthropogenic GHG emissions are reduced at least 85 percent below 1990 levels. The bill requires CARB to ensure that Scoping Plan updates identify and recommend measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable CO² removal solutions and carbon capture, utilization, and storage technologies.

SB 1020 (100 Percent Clean Electric Grid)

Signed on September 16, 2022, SB 1020 provides additional goals for the path to the 2045 goal of 100 percent clean electricity retail sales. It creates a target of 90 percent clean electricity retail sales by 2035 and 95 percent clean electricity retail sales by 2040.

SB 905 (Carbon Sequestration Program)

Signed on September 16, 2022, SB 905 establishes regulatory framework and policies that involve carbon removal, carbon capture, utilization, and sequestration. It also prohibits the injecting of concentrated carbon dioxide fluid into a Class II injection well for the purpose of enhanced oil recovery.

AB 1757 (Nature-Based Solutions)

Signed on September 16, 2022, AB 1757 requires State agencies to develop a range of targets for natural carbon sequestration and nature-based climate solutions that reduce GHG emissions to meet the 2030, 2038, and 2045 goals which would be integrated into a scoping plan addressing natural and working lands.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs using executive orders. Although not regulatory, they set the tone for the State and guide the actions of State agencies.

Executive Order S-3-05. Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07. Issued on January 18, 2007, Executive Order S 01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by 2020. The executive order established a Low Carbon Fuel Standard (LCFS) and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission, CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. CARB adopted the LCFS on April 23, 2009.

Executive Order S-13-08. Issued on November 14, 2008, Executive Order S-13-08 facilitated the California Natural Resources Agency development of the 2009 California Climate Adaptation Strategy. Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order S-14-08. Issued on November 17, 2008, Executive Order S-14-08 expands the State's Renewable Energy Standard to 33 percent renewable power by 2020. Additionally, Executive Order S-21-09 (signed on September 15, 2009) directs CARB to adopt regulations requiring 33 percent of electricity sold in the State come from renewable energy by 2020. CARB adopted the Renewable Electricity Standard on September 23, 2010, which requires 33 percent renewable energy by 2020 for most publicly owned electricity retailers.

Executive Order S-21-09. Issued on July 17, 2009, Executive Order S-21-09 directs CARB to adopt regulations to increase California's Renewable Portfolio Standard (RPS) to 33 percent by 2020. This builds upon SB 1078 (2002), which established the California RPS program, requiring 20 percent renewable energy by 2017, and SB 107 (2006), which advanced the 20 percent deadline to 2010, a goal which was expanded to 33 percent by 2020 in the 2005 Energy Action Plan II.

Executive Order B-30-15. Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40 percent below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of MMTCO₂e. The 2030 target acts as an interim goal on the way to achieving reductions of 80 percent below 1990 levels by 2050, a goal set by Executive Order S-3-05. The executive order also requires the State's climate adaptation plan to be updated every three years and for the State to continue its climate change research program, among other provisions. With the enactment of SB 32 in 2016, the Legislature codified the goal of reducing GHG emissions by 2030 to 40 percent below 1990 levels.

Executive Order B-55-18. Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant State agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires State agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

Executive Order N-79-20. Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Regulations. The appliance efficiency regulations (California Code of Regulations [CCR] Title 20, Sections 1601-1608) include standards for new appliances. Twenty-three categories of appliances are included in the scope of these regulations. These standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances.

Title 24 Building Energy Efficiency Standards. California's Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR Title 24, Part 6) was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. The California Energy Commission (CEC) adopted the 2022 Energy Code on August 11, 2021, which was subsequently approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Title 24 standards will result in less energy use, thereby reducing air pollutant emissions associated with energy consumption across California. For example, the 2022 Title 24 standards will require efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, and strengthens ventilation standards.

Title 24 California Green Building Standards Code. The California Green Building Standards Code (CCR Title 24, Part 11 code) commonly referred to as the CALGreen Code, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and commercial buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. Updates to the 2019 CALGreen Code took effect on January 1, 2023 (2022 CALGreen). The 2022 CALGreen standards has improved upon the 2019 standards for new construction of, and additions and alterations to, residential and nonresidential buildings.

3.3 Regional

South Coast Air Quality Management District Thresholds

The South Coast Air Quality Management District (SCAQMD) formed a GHG California Environmental Quality Act (CEQA) Significance Threshold Working Group to provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents. This working group was formed to assist SCAQMD's efforts to develop a GHG significance threshold and is composed of a wide variety of stakeholders including the State Office of Planning and Research, CARB, the Attorney General's Office, a variety of city and county planning departments in the SCAB, various utilities such as sanitation and power companies throughout the SCAB, industry groups, and environmental and professional organizations. The Working Group has proposed a tiered approach to evaluating GHG emissions for development projects

where SCAQMD is not the lead agency, wherein projects are evaluated sequentially through a series of “tiers” to determine whether the project is likely to result in a potentially significant impact due to GHG emissions.

With the tiered approach, a project is compared against the requirements of each tier sequentially and would not result in a significant impact if it complies with any tier. Tier 1 excludes projects that are specifically exempt from SB 97 from resulting in a significant impact. Tier 2 excludes projects that are consistent with a GHG reduction plan that has a certified final CEQA document and complies with AB 32 GHG reduction goals. Tier 3 excludes projects with annual emissions lower than a screening threshold. The SCAQMD has adopted a threshold of 10,000 MTCO₂e per year for industrial projects and a 3,000 MTCO₂e threshold was proposed for non-industrial projects but has not been adopted. The SCAQMD concluded that projects with emissions less than the screening threshold would not result in a significant cumulative impact.

Tier 4 consists of three decision tree options. Under the Tier 4 first option, SCAQMD initially outlined that a project would be excluded if design features and/or mitigation measures resulted in emissions 30 percent lower than business as usual emissions. However, the Working Group did not provide a recommendation for this approach. The Working Group folded the Tier 4 second option into the third option. Under the Tier 4 third option, a project would be excluded if it was below an efficiency-based threshold of 4.8 MTCO₂e per service population per year. Tier 5 would exclude projects that implement offsite mitigation (GHG reduction projects) or purchase offsets to reduce GHG emission impacts to less than the proposed screening level.

Tier 3 Screening Thresholds

When the tiered approach is applied to a proposed project, and the project is found not to comply with Tier 1 or Tier 2, the project’s emissions are compared against a screening threshold, as described above, for Tier 3. The screening threshold formally adopted by SCAQMD is an “interim” screening threshold for stationary source industrial projects where the SCAQMD is the lead agency under CEQA. The threshold was termed “interim” because, at the time, SCAQMD anticipated that CARB would be adopting a statewide significance threshold that would inform and provide guidance to SCAQMD in its adoption of a final threshold. However, no statewide threshold was ever adopted, and the interim threshold remains in effect.

For projects for which SCAQMD is not a lead agency, no screening thresholds have been formally adopted. However, the SCAQMD Working Group has recommended a threshold of 10,000 MTCO₂e/year for industrial projects and 3,000 MTCO₂e/year for residential and commercial projects. SCAQMD determined that these thresholds would “capture” 90 percent of GHG emissions from these sectors, “capture” meaning that 90 percent of total emissions from all new projects would be subject to some type of CEQA analysis (i.e., found potentially significant).⁹

Southern California Association of Governments

On September 3, 2020, SCAG’s Regional Council adopted Connect SoCal (2020–2045 *Regional Transportation Plan/Sustainable Communities Strategy* [2020 RTP/SCS]). The RTP/SCS charts a course for

⁹ SCAQMD, “Staff Report: Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans,” December 5, 2008, Attachment E: “Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold,” October 2008, p. 3-2.

closely integrating land use and transportation so that the region can grow smartly and sustainably. The strategy was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Orange, Los Angeles, Imperial, Riverside, San Bernardino, and Ventura. The RTP/SCS is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals. The SCAG region strives toward sustainability through integrated land use and transportation planning. The SCAG region must achieve specific federal air quality standards and is required by State law to lower regional GHG emissions.

3.4 Local

City of Santa Ana Climate Action Plan

The *Santa Ana Climate Action Plan (CAP)* was adopted in December 2015. The CAP outlines the City's efforts to reduce carbon pollution and energy use from City operations and the community as a whole. The CAP recommends GHG emissions targets that are consistent with the reduction targets of the State of California and presents a number of strategies and measures that will make it possible for the City to meet the recommended targets. The reduction strategies are organized in five sectors: transportation and land use, energy, solid waste, water, and wastewater. The reduction measures for community-wide reductions were projected to reach the CAP 15 percent reduction goal by 2020 and nearly reach its 30 percent reduction goal for 2035. Measures affecting municipal operations are projected to meet a 30 percent reduction goal by 2020 and 40 percent by 2035. Projects that demonstrate consistency with the strategies, actions, and emission reduction targets contained in the CAP would have a less than significant impact on climate change.

City of Santa Ana General Plan Update

The following are relevant policies and implementation actions of the Santa Ana General Plan Update, which may reduce GHG emissions impacts.

Mobility Element

Policy 1.7 Proactive Mitigation. Proactively mitigate potential air quality, noise, congestion, safety, and other impacts from the transportation network on residents and business.

Policy 1.8 Environmental Sustainability. Consider air and water quality, noise reduction, neighborhood character, and street-level aesthetics when making improvements to travelways.

Policy 3.3 Safe Routes to Schools and Parks. Lead the development and implementation of safer routes to schools and parks by partnering with the school district, residents, property owners, and community stakeholders.

Policy 3.4 Regional Coordination. Coordinate development of the City's active transportation and transit network with adjacent jurisdictions, OCTA, and other appropriate agencies.

Policy 3.5 Education and Encouragement. Encourage active transportation choices through education, special events, and programs.

Policy 3.7 Complete Streets Design. Enhance streets to facilitate safe walking, bicycling, and other nonmotorized forms of transportation through community participatory design.

Policy 4.1 Intense Development Areas. Program multimodal transportation and public realm improvements that support new development in areas along transit corridors and areas planned for high intensity development.

Policy 4.2 Project Review. Encourage active transportation, transit use, and connectivity through physical improvements and public realm amenities identified during the City's Development Review process.

Policy 4.3 Transportation Management. Coordinate with OCTA, employers, and developers to utilize TDM (transportation demand management) strategies and education to reduce vehicle trips and parking demands

Policy 4.5 Land Use Development Design. Ensure that building placement and design features create a desirable and active streetscape.

Policy 4.6 Roadway Capacity Alternatives. Promote reductions in automobile trips and vehicle miles traveled by encouraging transit use and nonmotorized transportation as alternatives to augmenting roadway capacity.

Policy 4.7 Parking. Explore and implement a flexible menu of parking options and other strategies to efficiently coordinate the response to parking demands.

Policy 4.9 Air Pollution Mitigation. Consider land use, building, site planning, and technology solutions to mitigate exposure to transportation related air pollution.

Policy 5.4 Green Streets. Leverage opportunities along streets and public rights-of-way to improve water quality through use of landscaping, permeable pavement, and other best management practices.

Policy 5.6 Clean Fuels and Vehicles. Encourage the use of alternative fuel vehicles and mobility technologies through the installation of supporting infrastructure.

Community Element

Policy 3.2 Healthy Neighborhoods. Continue to support the creation of healthy neighborhoods by addressing public safety, land use conflicts, hazardous soil contamination, incompatible uses, and maintaining building code standards.

Policy 3.4 Safe Mobility. Promote the overall safety of multi-modal streets by developing local and regional programs that educate and inform motorists of non-motorized roadway users.

Policy 3.7 Active Lifestyles. Support programs that promote sports, fitness, walking, biking and active lifestyles.

Conservation Element

Policy 1.1 Regional Planning Efforts. Coordinate air quality planning efforts with local and regional agencies to meet State and federal ambient air quality standards in order to protect all residents from the health effects of air pollution.

Policy 1.2 Climate Action Plan. Consistency with emission reduction goals highlighted in the Climate Action Plan shall be considered in all major decisions on land use and investments in public infrastructure.

Policy 1.3 Education. Promote efforts to educate businesses and the general public about air quality standards, reducing the urban heat island effect, health effects from poor air quality and extreme heat, and best practices they can make to improve air quality and reduce greenhouse gas emissions.

Policy 1.4 Development Standards. Support new development that meets or exceeds standards for energy-efficient building design and site planning.

Policy 1.5 Sensitive Receptor Decisions. Consider potential impacts of stationary and non-stationary emission sources on existing and proposed sensitive uses and opportunities to minimize health and safety risks. Develop and adopt new regulations on the siting of facilities that might significantly increase pollution near sensitive receptors within environmental justice area boundaries.

Policy 1.6 New and Infill Residential Development. Promote development that is mixed-use, pedestrian-friendly, transit oriented, and clustered around activity centers.

Policy 1.7 Housing and Employment Opportunities. Improve the City's jobs/housing balance ratio by supporting development that provides housing and employment opportunities to enable people to live and work in Santa Ana.

Policy 1.8 Promote Alternative Transportation. Promote use of alternate modes of transportation in the City of Santa Ana, including pedestrian, bicycling, public transportation, car sharing programs and emerging technologies.

Policy 1.9 Public Investment Alternative Transportation Infrastructure. Continue to invest in infrastructure projects that support public transportation and alternate modes of transportation in the City of Santa Ana, including pedestrian, bicycling, public transportation, car sharing programs, and emerging technologies.

Policy 1.10 Transportation Management. Continue to support and invest in improvements to the City's Transportation Management System, including projects or programs that improve traffic flow and reduce traffic congestion.

Policy 1.11 Public Investment in Low- or Zero Emission Vehicles. Continue to invest in low-emission or zero-emission vehicles to replace the City's gasoline powered vehicle fleet and to transition to available clean fuel sources such as bio-diesel for trucks and heavy equipment.

Policy 1.12 Sustainable Infrastructure. Encourage the use of low or zero emission vehicles, bicycles, non-motorized vehicles, and car-sharing programs by supporting new and existing development that includes sustainable infrastructure and strategies such as vehicle charging stations, drop-off areas for ridesharing services, secure bicycle parking, and transportation demand management programs.

Policy 1.13 City Contract Practices. Support businesses and contractors that use reduced-emissions equipment for city construction projects and contracts for services, as well as businesses that practice sustainable operations.

Policy 1.14 Transportation Demand Management. Require and incentivize projects to incorporate Transportation Demand Management (TDM) techniques.

Policy 2.3 Resource Management. Efficiently manage soil and mineral resource operations to eliminate significant nuisances, hazards, or adverse environmental effects on neighboring land uses.

Policy 3.3 Development Patterns. Promote energy efficient-development patterns by clustering mixed use developments and compatible uses adjacent to public transportation.

Policy 3.11 Energy-Efficient Transportation Infrastructure. Continue to support public and private infrastructure for public transportation such as bus routes, rail lines, and the OC Streetcar.

Policy 4.1 Water Use. Encourage and educate residents, business owners, and operators of public facilities to use water wisely and efficiently.

Policy 4.2 Landscaping. Encourage public and private property owners to plant native or drought-tolerant vegetation.

Policy 4.3 Recycled Water Systems. Continue to coordinate with the Orange County Water District, Orange County Sanitation District, and developers for opportunities to expand use of reclaimed water systems.

Policy 4.4 Irrigation Systems. Promote irrigation and rainwater capture systems that conserve water to support a sustainable community.

Policy 4.5 Water Supply. Continue to collaborate with Orange County Water District and Metropolitan Water District to ensure reliable, adequate, and high-quality sources of water supply at a reasonable cost.

Policy 4.6 Water Quality. Work with public and private property owners to reduce storm water runoff and to protect the water quality percolating into the aquifer and into any established waterway

Land Use Element

Policy 1.5 Diverse Housing Types. Incentivize quality infill residential development that provides a diversity of housing types and accommodates all income levels and age groups.

Policy 1.6 Transit Oriented Development. Encourage residential mixed-use development, within the City's District Centers and Urban Neighborhoods, and adjacent to high quality transit.

Policy 1.7 Active Transportation Infrastructure. Invest in active transportation connectivity between activity centers and residential neighborhoods to encourage healthy lifestyles.

Policy 2.5 Benefits of Mixed Use. Encourage infill mixed-use development at all ranges of affordability to reduce vehicle miles travelled, improve jobs/housing balance, and promote social interaction.

Policy 2.10 Smart Growth. Focus high density residential in mixed-use villages, designated planning focus areas, Downtown Santa Ana, and along major travel corridors.

Policy 4.1 Complementary Uses. Promote complete neighborhoods by encouraging a mix of complementary uses, community services, and people places within a walkable area.

Policy 4.3 Sustainable Land Use Strategies. Encourage land uses and strategies that reduce energy and water consumption, waste and noise generation, soil contamination, air quality impacts, and light pollution.

Policy 4.5 VMT Reduction. Concentrate development along high-quality transit corridors to reduce vehicle miles traveled (VMT) and transportation related carbon emissions.

Safety Element

Policy 1.6 Active Transportation Infrastructure. Support the creation of citywide public street and site amenities that accommodate and promote an active transportation-friendly environment.

Policy 3.10 Coordinated Street Improvement Plans. Coordinate citywide landscape medians and street trees with land use plans and development projects.

Policy 5.4 Intersections for all Travel Modes. Strengthen active transportation connections and amenities at focal intersections to promote a pleasant and safe experience for non-motorized forms of travel.

Open Space Element

Policy 2.5 Air Quality and Heat. Coordinate park renovation and development to address air quality and climate impacts by reducing heat island effect by providing green infrastructure and shade, and reducing air pollution by providing vegetation that removes pollutants and air particles.

Policy 3.5 Landscaping. Encourage the planting of native and diverse tree species in public and private spaces to reduce heat island effect, reduce energy consumption, and contribute to carbon mitigation.

Policy 3.6 Sustainable Parks and Facilities. Integrate drought tolerant or native plantings, water-wise irrigation, design and maintenance efficiencies, and sustainable development practices to reduce water use and energy consumption.

Policy 3.7. Urban Forest. Maintain, preserve, and enhance the City's urban forest as an environmental, economic, and aesthetic resource to improve residents' quality of life.

4 SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 CEQA Thresholds and Significance Criteria

Based upon the criteria derived from State CEQA Guidelines Appendix G, a project normally would have a significant effect on the environment if it would:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, based on any applicable threshold of significance; or
- Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

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.

Addressing GHG emissions generation impacts requires an agency to determine what constitutes a significant impact. The amendments to the CEQA Guidelines specifically allow lead agencies to determine thresholds of significance that illustrate the extent of an impact and are a basis from which to apply mitigation measures. This means that each agency is left to determine whether a project's GHG emissions will have a "significant" impact on the environment. The guidelines direct that agencies are to use "careful judgment" and "make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" the project's GHG emissions¹⁰.

The California Governor's Office of Planning and Research (OPR) Technical Advisory, *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review (2008)* states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact". Furthermore, the Technical Advisory indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice."

In the absence of any adopted quantitative threshold, the City of Santa Ana, as the lead agency, has determined that a project would not have a significant effect on the environment if the project is found to be consistent with the applicable regulatory plans and policies to reduce GHG emissions. The proposed Project's GHG emissions are evaluated consistent with CEQA Guidelines Sections 15183.5, 15064.4(a)(2), and 15064.4(b) by considering whether the Project complies with the CARB Scoping Plan and the City's Climate Action Plan. The CARB Scoping Plan provides a framework for actions to reduce California's GHG emissions and requires CARB and other State agencies to adopt regulations and other initiatives to reduce GHGs.

¹⁰ 14 California Code of Regulations, Section 15064.4a

4.2 Methodology

Global climate change is, by definition, a cumulative impact of GHG emissions. Therefore, there is no project-level analysis. The baseline against which to compare potential impacts of the project includes the natural and anthropogenic drivers of global climate change, including world-wide GHG emissions from human activities which almost doubled between 1970 and 2010 from approximately 27 gigatonnes (Gt) of CO₂/year to nearly 49 GtCO₂/year.¹¹ As such, the geographic extent of climate change and GHG emissions cumulative impact discussion is worldwide.

The Project's construction and operational emissions were calculated using the California Emissions Estimator Model 2022 (CalEEMod). Details of the modeling assumptions and emission factors are provided in **Appendix A: Greenhouse Gas Emissions Data**.

Construction

CalEEMod calculates construction emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. Construction GHG emissions were forecasted based on the proposed construction schedule and applying the emissions factors derived from CalEEMod. The Project's construction-related GHG emissions would be generated from off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles.

Construction was modeled generally according to the following timeline:

- Phase 1: Commence in early 2026 and conclude in the first quarter of 2030 (an approximate 51-month duration).
- Phase 2: Commence in the second quarter of 2030 and conclude at the end of 2032 (an approximate 33-month duration).
- Phase 3: Commence in early 2033 and conclude in the second quarter of 2036 (an approximate 41-month duration).

Operations

The Project's operational GHG emissions would be generated by vehicular traffic, area sources (e.g., landscaping maintenance, consumer products), energy consumption (electricity and natural gas), water supply and wastewater treatment, and solid waste. These emissions categories are discussed below.

- **Area Sources.** Area source emissions occur from architectural coatings, landscaping equipment, and consumer products. The Project involves residential, hotel, and commercial uses. Landscaping and consumer products (i.e., personal care products, home, lawn, and garden products, disinfectants, sanitizers, polishes, cosmetics, and floor finishes) would be part of the emissions from area sources. Additionally, the primary emissions from architectural coatings are volatile organic compounds, which are relatively insignificant as direct GHG emissions.
- **Energy Consumption.** Energy consumption consists of emissions from project consumption of electricity and natural gas. Primary uses of electricity and natural gas by the Project would be for miscellaneous residential and hotel appliances, space heating and cooling, water heating, ventilation, lighting, and electronics. Energy emissions are calculated based on consumption rates

¹¹ Intergovernmental Panel on Climate Change, *Climate Change 2014 Mitigation of Climate Change Working Group III Contribution to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*, 2014.

and emissions factors in CalEEMod. No changes were made to the default energy usage consumption rates or emissions factors.

- **Solid Waste.** Solid waste releases GHG emissions in the form of methane when these materials decompose. Solid waste emissions are calculated based on generation rates and emissions factors in CalEEMod.
- **Water and Wastewater.** Project GHG emissions would be generated from energy consumption associated with water and wastewater conveyance and treatment. Water and wastewater emissions are calculated based on consumption rates and emissions factors in CalEEMod. No changes were made to the default water/wastewater usage consumption rates or emissions factors.
- **Mobile Sources.** Mobile sources are emissions from motor vehicles. The Project generated traffic was obtained from the Project's Traffic Circulation Analysis Memorandum prepared by Linscott Law & Greenspan Engineers (August 2022). Project trip generation from the Traffic Circulation Analysis Memorandum is based on the following Institute of Transportation Engineers (ITE) land use categories:

Phase 1

- ITE Land Use 221: Multi-family Housing (Mid-rise) (1,375 dwelling units, 6,243 total daily vehicle trips).
- ITE Land Use 310: Hotel (250 rooms, 1,998 total daily vehicle trips).
- ITE Land Use 820: Shopping Center (250 thousand square feet, 9,253 total daily vehicle trips).
- ITE Land Use 255: Retirement Community (200 beds, 494 total daily vehicle trips).

Phase 2

- ITE Land Use 221: Multi-family Housing (Mid-rise) (856 dwelling units, 3,886 total daily vehicle trips).
- ITE Land Use 820: Shopping Center (65 thousand square feet, 2,406 total daily vehicle trips).

Phase 3

- ITE Land Use 221: Multi-family Housing (Mid-rise) (1,519 dwelling units, 6,896 total daily vehicle trips).
- ITE Land Use 820: Shopping Center (35 thousand square feet, 1,295 total daily vehicle trips).

Phase 1 of the Project would generate 12,298 daily trips. Phase 2 of the project would generate 4,458 daily vehicle trips, and Phase 3 of the Project would generate 6,062 daily trips. Full Project buildout (Phase 1, Phase 2, and Phase 3) would generate 22,818 total daily vehicle trips.

Emissions reductions attributable mitigation measures were applied in CalEEMod are derived from methodologies compiled in the CAPCOA report Quantifying GHG Measures¹². Each measure was assessed

¹² California Air Pollution Control Officers Association, *Quantifying Greenhouse Gas Mitigation Measures*, August 2010.

to determine its consistency with CAPCOA criteria for the use of the measure. The following mitigation measures/design features applied in CalEEMod include:

- **Transportation:** T-1 (Increase Residential Density)
- **Transportation Demand Management Measures:**
 - T-5 (Implement Commute Trip Reduction [Voluntary])
 - T-11 (Provide Employer Sponsored Vanpool) (qualitative/supporting measure)
 - T-14 (Provide Electric Vehicle Charging Infrastructure) (qualitative/supporting measure)
 - T-31-A (Locate Project in Area with High Destination Accessibility) (qualitative/supporting measure)

Mitigation Measure (**MM**) **AQ-4** requires a TDM Program.

- **Energy:** E-1 (Buildings Exceed 2019 Title 24 Building Envelope Energy Standards). **MM GHG-2** requires the Project to comply with 2022 CALGreen Tier 2 and the mitigation requires a 15 percent improvement. **MM GHG-5** requires energy efficient appliances.
- **Area Sources:** LL-1 (Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment). **MM AQ-6** requires zero-emission landscape equipment.

Consistency with GHG Reduction Plans

The Project was evaluated for consistency with the following GHG reduction plans:

- **City of Santa Ana CAP.** Project consistency with the goals and policies of City of Santa Ana CAP and contribution to the CAP's post-2020 GHG reduction trend.
- **SB 375.** Project consistency with major goals of SCAQG's Connect SoCal (2020-2045 RTP/SCS).
- **AB 32, SB 32, and AB 1279.** Project consistency with the State's GHG reduction targets and associated policies and regulations to meet the ultimate goal of net zero GHG no later than 2045, and achieve and maintain net negative GHG emissions thereafter, to ensure that anthropogenic GHG emissions are reduced to at least 85 percent below 1990 levels by 2045.

5 POTENTIAL IMPACTS AND MITIGATION

Overview of the Santa Ana General Plan Update Program EIR

The Santa Ana General Plan Update Program EIR (General Plan EIR) analyzed GHG emissions impacts at the programmatic level in Section 5.7 of this analysis. The analysis determined that implementation of the General Plan Update would result in a decrease in GHG emissions in horizon year 2045 from existing baseline but may not meet the long-term GHG reduction goal under Executive Order S-03-05. General Plan EIR Mitigation Measure GHG-1 requires the City to update the CAP every five years to achieve the City's GHG reduction target and to require amendments if the CAP is not achieving the specified level. Implementation of Mitigation Measure GHG-1 would ensure that the City is tracking and monitoring the City's GHG emissions in order to chart a trajectory to achieve the long-term year 2050 GHG reduction goal set by Executive Order S-03-05. However, the General Plan EIR determined there is no plan past 2030 that achieves the long-term GHG reduction goal established under Executive Order S-03-05. As identified by the California Council on Science and Technology, the State cannot meet the 2050 goal without major advancements in technology.¹³ The General Plan EIR notes that advancement in technology in the future could provide additional reductions to allow the State and City to meet the 2050 goal. However, it concluded that no additional statewide measures are currently available.

5.1 Greenhouse Gas Emissions and Reduction Plan Consistency

Threshold 5.1 Would the Project generate GHG emissions, either directly or indirectly, that could have a significant impact on the environment?

Threshold 5.2 Would the Project conflict with an applicable plan, policy, or regulation of an agency adopted for the purpose of reducing GHG emissions?

Construction Greenhouse Gas Emissions

The Project would result in direct emissions of CO₂, N₂O, and CH₄ from construction equipment and the transport of materials and construction workers to and from the project site. The GHG emissions only occur during temporary construction activities and would be cease once construction is complete. The total GHG emissions (in CO₂e) generated during construction are shown in **Table 4: Construction-Related Greenhouse Gas Emissions**.

¹³ California Council on Science and Technology (CCST), *California's Energy Future: Portraits of Energy Systems for Meeting Greenhouse Gas Reduction Targets*, September 2012. <http://www.ccst.us/publications/2012/2012ghg.pdf>

| Table 4: Construction-Related Greenhouse Gas Emissions | | |
|--|--------------------------|------------------------------|
| Category | MTCO₂e | |
| | Unmitigated | Mitigated¹ |
| Phase 1 Construction | | |
| Construction Year (2026) | 11,888 | 9,667 |
| Construction Year (2027) | 11,290 | 10,201 |
| Construction Year (2028) | 11,133 | 10,042 |
| Construction Year (2029) | 1,910 | 1,383 |
| Construction Year (2030) | 286 | 270 |
| Total Phase 1 Construction Emissions | 36,506 | 31,564 |
| Phase 1: 30-Year Amortized Construction Emissions | 1,217 | 1,052 |
| Phase 2 Construction | | |
| Construction Year (2030) | 2,911 | 1,664 |
| Construction Year (2031) | 4,007 | 2,684 |
| Construction Year (2032) | 3,174 | 2,320 |
| Total Phase 2 Construction Emissions | 10,091 | 6,668 |
| Phase 2: 30-Year Amortized Construction Emissions | 336 | 222 |
| Phase 3 Construction | | |
| Construction Year (2033) | 12,052 | 9,333 |
| Construction Year (2034) | 4,354 | 3,386 |
| Construction Year (2035) | 13,680 | 12,690 |
| Construction Year (2036) | 4,057 | 3,784 |
| Total Phase 3 Construction Emissions | 34,142 | 29,193 |
| Phase 3: 30-Year Amortized Construction Emissions | 1,138 | 973 |
| Project Buildout Total Construction Emissions | 80,740 | 67,425 |
| Project Buildout Total Amortized Emissions | 2,691 | 2,248 |
| 1. MM AQ-1 requires off-road equipment 50 horsepower or greater to meet CARB Tier 4 Final standards (refer to the Project Air Quality Assessment). | | |
| Source: CalEEMod version 2022. Refer to Appendix A for model outputs. | | |

As shown in **Table 4**, Phase 1 of the Project would result in the generation of approximately 36,506 MTCO₂e over the course of construction; Phase 2 would generate approximately 10,091 MTCO₂e over the course of construction; and Phase 3 would generate approximately 34,142 MTCO₂e over the course of construction. Construction GHG emissions are typically summed and amortized over a 30-year period and then added to the operational emissions¹⁴. The amortized Project Phase 1 construction emissions would be 1,217 MTCO₂e per year while the amortized Project Phase 2 and Phase 3 construction emissions would be 336 MTCO₂e and 1,138 MTCO₂e per year, respectively. Total construction emissions and total amortized emissions for Project Buildout would be 80,740 MTCO₂e and 2,691 MTCO₂e per year respectively. The Project Air Quality Assessment includes Mitigation Measure (MM) AQ-1, which requires the use of advanced engine tiers (i.e., equipment engines meeting CARB Tier 4 Final emissions standards),

¹⁴ The standard 30-year amortization period is based on the South Coast Air Quality Management District (South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13*, August 26, 2009).

which would reduce total construction emissions to 67,425 MTCO₂e (2,248 MTCO₂e per year). Once construction is complete, the generation of these GHG emissions would cease.

Operational Greenhouse Gas Emissions

Operational emissions occur over the life of the Project. GHG emissions would result from direct emissions such as Project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power, the energy required to convey water to, and wastewater from the Project, and the emissions associated with solid waste generated from the Project.

Existing regulations applicable to the Project would help to reduce GHG emissions. Prior to issuance of a building permit, the City of Santa Ana would review and verify that the Project plans demonstrate compliance with the current version of the Building and Energy Efficiency Standards. The Project would also be required to adhere to the provisions of CALGreen, which establishes planning and design standards for sustainable site development, and energy efficiency.

GHG emissions associated with Phase 1, Phase 2, Phase 3, and Project Buildout (combination of Phase 1, Phase 2, and Phase 3) are summarized in **Table 5: Operational Greenhouse Gas Emissions**. As shown in **Table 5**, the Project's total unmitigated emissions would be approximately 20,597 MTCO₂e for Phase 1, 7,325 MTCO₂e for Phase 2, 14,147 MTCO₂e for Phase 3, and 42,069 MTCO₂e for Project Buildout.

| Table 5: Operational Greenhouse Gas Emissions | | |
|--|-----------------------------------|------------------|
| Emissions Source | MTCO₂e per Year | |
| | Unmitigated | Mitigated |
| Phase 1 | | |
| Construction Amortized Over 30 Years | 1,217 | 1,052 |
| Mobile ¹ | 12,236 | 10,123 |
| Area Source ² | 68 | 0 |
| Energy (Electricity) ^{3, 4} | 4,489 | 4,178 |
| Energy (Natural Gas) ³ | 1,623 | 1,489 |
| Water and Wastewater | 255 | 255 |
| Waste ⁵ | 612 | 612 |
| Refrigerants | 96 | 96 |
| TOTAL | 20,597 | 17,806 |
| Phase 2 | | |
| Construction Amortized Over 30 Years | 336 | 222 |
| Mobile ¹ | 4,600 | 3,488 |
| Area Source ² | 29 | 0 |
| Energy (Electricity) ^{3, 4} | 1,501 | 1,485 |
| Energy (Natural Gas) ³ | 527 | 469 |
| Water and Wastewater | 111 | 111 |
| Waste ⁵ | 219 | 219 |
| Refrigerants | 1 | 1 |
| TOTAL | 7,325 | 5,995 |

| Table 5: Operational Greenhouse Gas Emissions | | |
|---|-----------------------------------|------------------|
| Emissions Source | MTCO₂e per Year | |
| | Unmitigated | Mitigated |
| Phase 3 | | |
| Construction Amortized Over 30 Years | 1,138 | 973 |
| Mobile ¹ | 6,777 | 4,884 |
| Area Source ² | 48 | 0 |
| Energy (Electricity) ^{3, 4} | 1,157 | 1,111 |
| Energy (Natural Gas) ³ | 4,533 | 4,022 |
| Water and Wastewater | 129 | 129 |
| Waste ⁵ | 362 | 362 |
| Refrigerants | 2 | 2 |
| TOTAL | 14,147 | 11,484 |
| Project Buildout | | |
| Construction Amortized Over 30 Years | 2,691 | 2,248 |
| Mobile ¹ | 23,613 | 18,495 |
| Area Source ² | 146 | 0 |
| Energy (Electricity) ^{3, 4} | 7,147 | 6,774 |
| Energy (Natural Gas) ³ | 6,683 | 5,979 |
| Water and Wastewater | 496 | 496 |
| Waste ⁵ | 1,193 | 1,193 |
| Refrigerants | 100 | 100 |
| BUILDOUT TOTAL | 42,069 | 35,285 |
| Existing Emissions | | |
| Phase 1 Existing | 8,472 | 8,472 |
| Phase 2 Existing | 1,268 | 1,268 |
| Phase 3 Existing | 6,398 | 6,398 |
| EXISTING TOTAL | 16,138 | 16,138 |
| NET EMISSIONS | 25,931 | 19,147 |
| 1. Mitigation Measure AQ-3 (refer to the Projects Air Quality Assessment) requires implementation of a TDM program. 2. Mitigation Measure GHG-4 requires 100 percent electric landscaping equipment, which would reduce area source emissions. 3. Mitigation Measure GHG-2 requires buildings to meet or exceed CALGreen Tier 2 standards. 4. Mitigation Measure GHG-1 requires the installation of photovoltaic solar panels to offset energy emissions. 5. Mitigation Measure GHG-3 requires a minimum of 75 percent solid waste diversion. | | |
| Source: CalEEMod version 2022. Refer to Appendix A for model outputs. | | |

The majority of the GHG emissions (56 percent unmitigated and 52 percent mitigated at Project Buildout) are associated with non-construction related mobile sources. Emissions of motor vehicles are controlled by State and federal standards, and the Project has no control over these standards.

The Project includes numerous mitigation measures that would reduce emissions. **MM AQ-4, AQ-5, AQ-6, and MM AQ-7** have been identified in the Project's Air Quality Assessment to reduce operational emissions and would also reduce GHG emissions. **MM AQ-4** requires the implementation of a Transportation Demand Management (TDM) program to reduce single occupant vehicle trips and encourage transit; **MM AQ-5** prohibits the use of any wood-burning and natural gas fireplace in residential units; **MM AQ-6** requires all landscaping equipment used on the site shall be zero-emission; and **MM AQ-7** requires the implementation of low VOC paint.

Additionally, the Project would further reduce GHG emissions through implementation of **MM GHG-1** through **MM GHG-5**. **MM GHG-1** requires the installation of photovoltaic solar panels to offset energy emissions; **MM GHG-2** requires the Project to meet or exceed CALGreen Tier 2 standards to further improve energy efficiency; **MM GHG-3** requires the Project to divert 75 percent of waste from landfills; **MM GHG-4** requires landscape equipment to be 100 percent electric; **MM GHG-5** requires the residential projects to use energy efficient appliances. The Project would also be required to comply with Laws, Ordinances, and Regulations (LOR) GHG-1 through LOR GHG-4 which would be required by local, State, or federal regulations or laws.

Table 5 shows that implementation of these mitigation measures and LORs would reduce GHG emissions to 17,806 MTCO₂e for Phase 1; to 5,995 MTCO₂e for Phase 2; to 11,484 MTCO₂e for Phase 3; and to 35,285 MTCO₂e for Project Buildout. The majority of the Project's GHG emissions are generated by mobile emissions. The TDM program required by **MM AQ-4** would reduce GHG emissions from commuting. The mixed-use nature of the Project provides opportunities to reduce retail trips.

Additional mitigation to reduce the Project's mobile emissions is not feasible due to the limited ability of the City of Santa Ana to address emissions resulting from mobile sources and/or emissions generated by cars and trucks outside of the City's limits. As with all land use projects, the Project's mobile and transportation related GHG emissions are a function of two parameters: emissions control technology and vehicle miles traveled (VMT).

CARB is directly responsible for regulating mobile and transportation source emissions in the State. Regarding the first parameter, California addresses emissions control technology through a variety of legislation and regulatory schemes, including the State's Low Carbon Fuel Standard (Executive Order S-01-07) (LCFS), a regulatory program designed to encourage the use of cleaner low-carbon transportation fuels in California, encourage the production of those fuels, and therefore, reduce GHG emissions and decrease petroleum dependence in the transportation sector. The regulatory standards are expressed in terms of the "carbon intensity" of gasoline and diesel fuel and their substitutes. Different types of fuels are evaluated to determine their "life cycle emissions" which include the emissions associated with producing, transporting, and using the fuels. Each fuel is then given a carbon intensity score and compared against a declining carbon intensity benchmark for each year. Providers of transportation fuels must demonstrate that the mix of fuels they supply for use in California meets these declining benchmarks for each annual compliance period.

In 2018, CARB approved amendments to the LCFS, which strengthened the carbon intensity benchmarks through 2030 to ensure they are in-line with California's 2030 GHG emission reduction target enacted through SB 32. CARB is also implementing additional transportation sector regulations such as Advanced Clean Cars II, Advanced Clean Trucks, and Advanced Clean Fleets. This ensures that the transportation sector is meeting its obligations to achieve California's GHG reduction targets. The Project would be required to comply with these regulations through vehicle manufacturer compliance. The State is also implementing legislation and regulations to address the second parameter affecting transportation related GHG emissions by controlling for VMT. Examples of this include SB 375, which links land use and transportation funding and provides one incentive for regions to achieve reductions in VMT, and SB 743, which discourages VMT increases for passenger car trips above a region-specific benchmark.

Additional mitigation to further reduce the Project's non-mobile emissions would be speculative. The Project's mitigation measures and LORs address non-mobile emissions to the extent possible, by designing buildings to provide environmental design features, incorporate energy and water conservation

measures, and provide electrical, heating, ventilation, lighting, and power systems that meet CALGreen Standards (**MM GHG-1** requires the installation of photovoltaic solar panels to offset energy emissions. **MM GHG-2** requires the Project to meet or exceed CALGreen Tier 2 standards, which exceeds code requirements). Further, the project would be required to divert 75 percent of solid waste from landfills (**MM GHG-3**) and require landscape equipment to be 100 percent electric (**MM GHG-4**). The State is addressing the remaining energy-related GHG emissions through SB 100 and SB 1020, which requires 100 percent clean electricity retail sales by 2045. Additionally, SB 905 requires the State to use carbon removal, carbon capture, utilization, and sequestration technologies and AB 1757 requires nature-based sequestration in natural working lands.

Santa Ana Climate Action Plan Consistency

The City of Santa Ana adopted a Climate Action Plan (CAP) in December 2015. According to the CAP, transportation accounted for 48 percent of community emissions in 2008. Commercial, industrial, and residential energy accounted for 42 percent of emissions in Santa Ana. Solid waste, water use, and wastewater together account for six percent of community-wide emissions in 2008.

The CAP describes that many of the commercial and employment corridors throughout the City have limited or no residential development. The CAP envisions that the City would locate new residential development within these retail and employment corridors to create a more optimal mix of land uses. This mix of land uses could potentially divert some work, shopping, and eating trips from automobile use to bicycle and pedestrian travel, which would reduce VMT. This higher level of mixed-use is also more conducive to the increased use of transit.

The CAP builds upon the goals and policies set forth in the City’s General Plan and was specifically designed to achieve the City’s goals of reducing community-wide GHG emissions 15 percent below the baseline year (2008) by 2020 and 30 percent below the baseline year by 2035. One of the methods prescribed by the CAP for achieving those goals is encouraging higher intensity mixed-use development within the City’s designated District Centers.

The proposed Project is an urban mixed-use infill project that would include local retail, housing, office, and hotel near OCTA transit routes, major freeways, and roadways. The infill location, mix of uses, and proximity to transit would reduce dependency on cars, reduce time spent in traffic, closely links residents to jobs and services, and reduce VMT. The goals outlined in the City of Santa Ana CAP are listed in **Table 6: City of Santa Ana Climate Action Plan Consistency**. The Proposed Project is evaluated for consistency with these goals.

| Table 6: City of Santa Ana Climate Action Plan Consistency | |
|---|--|
| Transportation and Land Use Measures | |
| CAP Goals | Compliance |
| GOAL 1: Development of Local Retail Service Nodes | Consistent. The proposed Project is an urban mixed-use infill project that would include local retail, housing, senior community, and hotel near OCTA transit routes, major freeways, and roadways. The infill location, mix of uses, and proximity to transit would reduce dependency on cars, reduce time spent in traffic, closely links residents to jobs and services, and reduce VMT. |

| Table 6: City of Santa Ana Climate Action Plan Consistency | | |
|---|---|---|
| GOAL 2: | Local Residential Nodes near Retail and Employment | Consistent. The proposed Project would include retail, housing, senior community, and hotel uses at an urban infill location near transit, major freeways, and roadways. The inclusion of 3,750 residential dwelling units would create a more optimal mix of land uses that would be conducive to the increased use of transit. |
| GOAL 3: | Traffic Signal Synchronization Program | Not Applicable. This is not a project-specific policy and is therefore not applicable. |
| GOAL 4: | Local Employment Nodes near Residential and Retail Areas | Consistent. As noted above, the proposed Project is an urban infill project mixed-use development that would include retail, housing, senior community, and hotel near transit and major freeways and roadways. |
| GOAL 5: | End of Trip Facilities in New Projects | Consistent. The proposed mix of uses, proximity to transit and employment would encourage and facilitate and alternative forms of transportation. |
| GOAL 6: | Safe Routes to Schools | Consistent. Although this is not a project-specific policy, the Project would maintain and create additional walkways, pedestrian and bicycle mobility access. |
| GOAL 7: | Design Guidelines for External Bike/ Pedestrian/ Transit Connectivity | Consistent. The Project would include a variety of connectivity points for vehicles, bicycles, transit, and pedestrians. The Project has multiple bus lines that stop at the existing public transit stops along the northern, eastern, and southern boundaries of the project site. |
| GOAL 8: | Design Guidelines for Internal Bike/ Pedestrian/ Transit Connectivity | Consistent. The Project has a network of internal walkways to facilitate access throughout the varying land uses on the project site. |
| GOAL 9: | Adjust Parking Ratios | Consistent. This goal applies to the parking standards established by the City. The Project has proposed modifications to the City's parking requirements for the site based on the mixed-use nature of the site and proximity to transit. |
| GOAL 10: | Community-wide Bike Sharing Stations | Consistent. This policy includes the development of bike-sharing stations at several locations throughout the City, including the Santa Ana Regional Transportation Center, major bus stop locations, City Hall, etc. These bicycles will help to extend trips possible through transit or directly substitute automobile trips. The Project would include bicycle parking/sharing stations within the parking structures. |
| Energy Measures | | |
| CAP Goals | | Compliance |
| GOAL 11: | Property Assessed Clean Energy (PACE) Financing— Commercial | Consistent. The Project includes energy efficient infrastructure, such as Title 24 compliant irrigation and plumbing systems, energy efficient appliances, solar-reflective roofing materials, and electric vehicle charging stations. Financial programs such as PACE can provide assistance to the developer to implement these measures. |
| GOAL 12: | SCE Small and Medium Business Direct Install | Consistent. The Project would be required to incorporate energy saving measures into the Project's design, as described in AQ and GHG mitigation measures. Programs such as SCE Direct Install can assist the developer with implementing these measures. |

| Table 6: City of Santa Ana Climate Action Plan Consistency | | |
|---|--|---|
| GOAL 13: | Property Assessed Clean Energy (PACE) Financing— Residential | Consistent. Refer to the responses above. Financial programs such as PACE could potentially provide assistance to the developer to implement these measures. |
| GOAL 14: | Solar Photovoltaic Systems – New Private Installs | Consistent. The Project requires the use of solar photovoltaic systems under MM GHG-1 . The solar incentives offered by the City could be used to assist the developer with solar photovoltaic installations. |
| GOAL 15: | SCE and SCG Residential Programs | Consistent. These goals generally involve the use of retrofit programs and would not directly apply to the new development proposed on site. The Project would comply with the latest CALGreen and Title 24 standards, which would meet these requirements. |
| GOAL 16: | Weatherization* | |
| GOAL 17: | SCG Commercial Programs** | |
| GOAL 18: | Streetlight Purchase and Retrofit*** | |
| GOAL 19: | Benchmarking and Retrocommissioning* | |
| GOAL 20: | Title 24 Energy Efficiency Standards—Commercial* | Consistent. The Project would comply with Title 24 energy efficiency standards for commercial uses. |
| GOAL 21: | Title 24 Energy Efficiency Standards—Residential* | Consistent. The Project would comply with Title 24 energy efficiency standards for residential uses. |
| GOAL 22: | Solar Hot Water Heating Systems for Laundromats** | Consistent. Should a laundromat be proposed, it would comply with Goal 22. |
| GOAL 23: | Green Business Challenge Program* | Consistent. Incentive and financial programs such as the Green Business Challenge Program can assist future tenants to implement energy efficiency measures. The program benefits participating businesses through reduced costs for energy, water, and waste disposal. |
| Solid Waste, Water, and Wastewater Measures | | |
| CAP Goals | | Compliance |
| GOAL 24: | AB 341 Commercial and Multifamily Recycling | Consistent. The Project would implement a solid waste recycling system in compliance with State and local regulations. |
| GOAL 25: | Food Waste Digestion | Consistent. Beginning in 2022, SB 1383 requires every jurisdiction to provide organic waste collection services to all residents and businesses. SB 1383 required CalRecycle to adopt regulations designed to reduce statewide landfill disposal of organic waste. The Project would comply with the latest regulations regarding food waste collection. |
| GOAL 26: | Rainwater Harvesting | Consistent. The proposed Project would install storm water detention systems; if deemed feasible, rainwater harvesting would be permitted. In addition, runoff would be routed to Project landscaped areas. |
| GOAL 27: | Turf Removal | Consistent. There is very limited turf on the project site associated with existing landscaping for the shopping center. The proposed Project requires landscaping alternatives to turf. |

Table 6: City of Santa Ana Climate Action Plan Consistency

* Note that emissions reduction from these measures include natural gas and electricity savings.
 **Emissions reduction from these measures is due entirely to natural gas savings.
 ***Emissions reduction from these measures is due entirely to electricity savings.
 Source: *Santa Ana Climate Action Plan*, prepared by ICLEI-USA, December 2015.

As identified in **Table 6**, the Project would be consistent with applicable plan goals. The proposed Project would be subject to compliance with all building codes in effect at the time of construction, which include energy conservation measures mandated by California Building Standards Code Title 24 – Energy Efficiency Standards. Because Title 24 standards require energy conservation features in new construction (e.g., high- efficiency lighting, high-efficiency heating, ventilating, and air-conditioning (HVAC) systems, thermal insulation, double-glazed windows, water conserving plumbing fixtures), they indirectly regulate and reduce GHG emissions. California's Building Energy Efficiency Standards are updated on an approximately three-year cycle. Therefore, future development phases would be subject to more increasingly stringent requirements in each building code version.

The CAP identifies a series of local measures to help guide the City in the areas of building energy, transportation, solid waste management, wastewater treatment, and water conveyance to further reduce community wide GHG emissions. Further measures that are applicable to the Project include meeting the City's waste diversion goal consistent with CALGreen, reducing the amount of water, energy, and fuels consumed, and demonstrating energy efficiency in new development.

Regional Transportation Plan/Sustainable Communities Strategy Consistency

On September 3, 2020, SCAG's Regional Council adopted Connect SoCal (*2020–2045 Regional Transportation Plan/Sustainable Communities Strategy* [2020 RTP/SCS]). The RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS embodies a collective vision for the region's future and is developed with input from local governments, county transportation commissions, tribal governments, nonprofit organizations, businesses, and local stakeholders in the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. SCAG's RTP/SCS establishes GHG emissions goals for automobiles and light-duty trucks for 2020 and 2035 as well as an overall GHG target for the Project region consistent with both the target date of AB 32 and the post-2020 GHG reduction goals of Executive Orders 5-03-05 and B-30-15.

The RTP/SCS contains over 4,000 transportation projects, ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs and replacement bridges. These future investments were included in county plans developed by the six county transportation commissions and seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices for everyone. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding.

The plan accounts for operations and maintenance costs to ensure reliability, longevity, and cost effectiveness. The RTP/SCS is also supported by a combination of transportation and land use strategies that help the region achieve State GHG emissions reduction goals and Federal Clean Air Act (FCAA) requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry, and utilize resources more efficiently. GHG emissions resulting from development-related mobile sources are the most potent source of emissions, and therefore Project comparison to the RTP/SCS is an appropriate indicator of whether the Project would inhibit the post-2020

GHG reduction goals promulgated by the State. The Project's consistency with the RTP/SCS goals is analyzed in detail in **Table 7: Regional Transportation Plan/Sustainable Communities Strategy Consistency**.

| Table 7: Regional Transportation Plan/Sustainable Communities Strategy Consistency | |
|--|--|
| SCAG Goals | Compliance |
| GOAL 1: Encourage regional economic prosperity and global competitiveness. | N/A: This is not a project-specific policy and is therefore not applicable. However, the Project is an infill project in a highly urbanized area and development of the site would contribute to regional economic prosperity. |
| GOAL 2: Improve mobility, accessibility, reliability, and travel safety for people and goods. | Consistent: Although this Project is not a transportation improvement project, the Project is located near existing transit routes adjacent to the project site and major transportation corridors on I-405, SR-55, and SR-73. |
| GOAL 3: Enhance the preservation, security, and resilience of the regional transportation system. | N/A: This is not a transportation improvement project and is therefore not applicable. |
| GOAL 4: Increase person and goods movement and travel choices within the transportation system. | N/A: This is not a transportation improvement project and is therefore not applicable. |
| GOAL 5: Reduce greenhouse gas emissions and improve air quality. | Consistent: The project site is located within an urban area in proximity to existing transit routes and freeways. Location of the Project within a developed area would reduce trip lengths, which would reduce GHG and air quality emissions. |
| GOAL 6: Support healthy and equitable communities | Consistent: Although the Project exceeds regional thresholds for criteria pollutants (air quality), the Project does not exceed health-related localized air quality thresholds. |
| GOAL 7: Adapt to a changing climate and support an integrated regional development pattern and transportation network. | N/A: This is not a project-specific policy and is therefore not applicable. |
| GOAL 8: Leverage new transportation technologies and data-driven solutions that result in more efficient travel. | N/A: This is not a project-specific policy and is therefore not applicable. |
| GOAL 9: Encourage development of diverse housing types in areas that are supported by multiple transportation options. | Consistent: The Project is mixed-use and involves development of commercial, residential, and senior community that would provide diverse housing options that would be served by several bus routes such as Routes 55, 57, 76, 86, 86, and 150 operated by Orange County Transportation Authority (OCTA). |
| GOAL 10: Promote conservation of natural and agricultural lands and restoration of habitats. | N/A: This project site is located within an urban area and is not located on existing agricultural lands. |

Source: Southern California Association of Governments, *Connect SoCal (2020 - 2045 Regional Transportation Plan/Sustainable Communities Strategy*, 2020.

The goals stated in the RTP/SCS were used to determine consistency with the planning efforts previously stated. As shown in **Table 7**, the Project would be consistent with the stated goals of the RTP/SCS. Therefore, the Project would not result in any significant impacts or interfere with SCAG’s ability to achieve the region’s post-2020 mobile source GHG reduction targets.

California Air Resource Board Scoping Plan Consistency

The California State Legislature adopted Assembly Bill (AB) 32 in 2006. AB 32 focuses on reducing GHGs (CO₂, CH₄, N₂O, HFCs, PFCs, and SF₆) to 1990 levels by the year 2020. Pursuant to the requirements in AB 32, CARB adopted the *Climate Change Scoping Plan* (Scoping Plan) in 2008, which outlines actions recommended to obtain that goal. The Scoping Plan provides a range of GHG reduction actions that include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as the cap-and-trade program, and an AB 32 implementation fee to fund the program.

2017 Scoping Plan

The 2017 Scoping Plan Update identifies GHG reduction measures necessary to achieve the 2030 target of a 40 percent reduction below 1990 levels. These measures build upon those identified in the first update to the Scoping Plan in 2013 and provide a connection to the 2022 Scoping Plan, which identifies a pathway for the state to achieve carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. As shown in **Table 8: Project Consistency with Applicable CARB Scoping Plan Measures**, the Project is consistent with most of the Scoping Plan strategies, while others are not applicable to the Project. As such, impacts related to consistency with the Scoping Plan would be less than significant.

| Table 8: Project Consistency with Applicable CARB Scoping Plan Measures | | | |
|--|---|---|---|
| Scoping Plan Sector | Scoping Plan Measure | Implementing Regulations | Project Consistency |
| Transportation | California Cap-and-Trade Program Linked to Western Climate Initiative | Regulation for the California Cap on GHG Emissions and Market-Based Compliance Mechanism October 20, 2015 (CCR 95800) | Consistent. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers. However, the regulation indirectly affects people who use the products and services produced by these industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers. The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, generated in-state or imported. Accordingly, GHG emissions associated with CEQA projects’ electricity usage are covered by the Cap-and-Trade Program. The Cap-and-Trade Program also covers fuel suppliers (natural gas and propane fuel providers and transportation fuel providers) to address emissions from such fuels and combustion of other fossil fuels not directly covered at large sources in the Program’s first compliance period. |
| | California Light-Duty Vehicle GHG Standards | Pavley I 2005 Regulations to Control GHG Emissions from Motor Vehicles Pavley I 2005 Regulations to Control | Consistent. This measure applies to all new vehicles starting with model year 2012. The Project would not conflict with its implementation as it would apply to all new passenger vehicles purchased in California. Passenger vehicles, model year 2012 and later, associated with construction and operation of the |

| Table 8: Project Consistency with Applicable CARB Scoping Plan Measures | | | |
|---|--|---|---|
| Scoping Plan Sector | Scoping Plan Measure | Implementing Regulations | Project Consistency |
| | | GHG Emissions from Motor Vehicles | Project would be required to comply with the Pavley emissions standards. |
| | | 2012 LEV III California GHG and Criteria Pollutant Exhaust and Evaporative Emission Standards | Consistent. The LEV III amendments provide reductions from new vehicles sold in California between 2017 and 2025. Passenger vehicles associated with the site would comply with LEV III standards. |
| | Low Carbon Fuel Standard | 2009 readopted in 2015. Regulations to Achieve GHG Emission Reductions Subarticle 7. Low Carbon Fuel Standard CCR 95480 | Consistent. This measure applies to transportation fuels used by vehicles in California. The Project would not conflict with implementation of this measure. As the carbon content is established when fuels are produced, motor vehicles associated with construction and operation of the Project would benefit from these transportation fuels required under this measure. |
| | Regional Transportation-Related GHG Targets. | SB 375. Cal. Public Resources Code §§21155, 21155.1, 21155.2, 21159.28 | Consistent. The Project would provide development in the region that is consistent with the growth projections in the RTP/SCS. The proposed Project is an infill project with a mix of uses, which would include hotel, senior community, and retail uses as well as higher density housing that is near major freeways, transit, and other services. By facilitating a mixed-use development with housing and neighborhood-serving retail proximate to employment, which would also reduce mobile-source GHG emissions. MM AQ-3 requires development of a Transportation Demand Management program to reduce mobile emissions for residential and commercial uses. Single-occupancy vehicle trips would be discouraged and alternative modes of transportation such as carpooling, taking transit, walking, and biking would be encouraged and facilitated. |
| | Goods Movement | Goods Movement Action Plan January 2007 | Not applicable. The Project does not propose any changes to maritime, rail, or intermodal facilities or forms of transportation. |
| | Medium/Heavy-Duty Vehicle | 2010 Amendments to the Truck and Bus Regulation, the Drayage Truck Regulation and the Tractor-Trailer GHG Regulation | Consistent. This measure applies to medium and heavy-duty vehicles that operate in the State. The Project would not conflict with implementation of this measure. Medium and heavy-duty vehicles associated with construction and operation of the Project would be required to comply with the requirements of this regulation. |
| | High Speed Rail | Funded under SB 862 | Not applicable. This is a statewide measure that cannot be implemented by a project applicant or Lead Agency. |
| Electricity and Natural Gas | Energy Efficiency | Title 20 Appliance Efficiency Regulation | Consistent. The Project would not conflict with implementation of this measure. The Project would comply with the latest energy efficiency standards. |
| | | Title 24 Part 6 Energy Efficiency Standards for Residential and Non-Residential Building | |
| | | Title 24 Part 11 California Green Building Code Standards | |
| | Renewable Portfolio Standard/Renewable Electricity Standard. | 2010 Regulation to Implement the | Consistent. The Project would obtain electricity from the electric utility, Southern California Edison (SCE). SCE obtained 30.9 percent of its power supply from |

| Table 8: Project Consistency with Applicable CARB Scoping Plan Measures | | | |
|--|-------------------------------------|--|--|
| Scoping Plan Sector | Scoping Plan Measure | Implementing Regulations | Project Consistency |
| | | Renewable Electricity Standard (33% 2020) | renewable sources in 2020 and include 50 percent and 100 percent renewable Green Rate options. Therefore, the utility would provide power when needed on site that is composed of a greater percentage of renewable sources. |
| | Million Solar Roofs Program | SB 350 Clean Energy and Pollution Reduction Act of 2015 (50% 2030) | |
| | Million Solar Roofs Program | Tax Incentive Program | Consistent. This measure is to increase solar throughout California, which is being done by various electricity providers and existing solar programs. The program provides incentives that are in place at the time of construction. Additionally, MM GHG-1 requires solar to offset the Project’s energy demand. |
| Water | Water | Title 24 Part 11 California Green Building Code Standards | Consistent. The Project would comply with the CALGreen standards, which requires a 20 percent reduction in indoor water use. The Project would also comply with the City’s irrigation audit, irrigation survey, and irrigation water use analysis. (Chapter 41, Section 813 of the Santa Ana Municipal Code). |
| | | SBX 7-7—The Water Conservation Act of 2009 | |
| | | Model Water Efficient Landscape Ordinance | |
| Green Buildings | Green Building Strategy | Title 24 Part 11 California Green Building Code Standards | Consistent. The State is to increase the use of green building practices. The Project would implement required green building strategies through existing regulation that requires the Project to comply with various CALGreen requirements. |
| Industry | Industrial Emissions | 2010 CARB Mandatory Reporting Regulation | Not applicable. The Mandatory Reporting Regulation requires facilities and entities with more than 10,000 MTCO _{2e} of combustion and process emissions, all facilities belonging to certain industries, and all electric power entities to submit an annual GHG emissions data report directly to CARB. As shown above, although total Project GHG emissions would exceed 10,000 MTCO _{2e} , the Project is not considered a “facility” and the majority of these emissions are from mobile sources. Therefore, this regulation would not apply. |
| Recycling and Waste Management | Recycling and Waste | Title 24 Part 11 California Green Building Code Standards | Consistent. The Project would not conflict with implementation of these measures. The Project is required to achieve the recycling mandates via compliance with the CALGreen code. Further, the project would divert a minimum of 75 percent of landfill waste pursuant to MM GHG-3 . |
| | | AB 341 Statewide 75 Percent Diversion Goal | |
| Forests | Sustainable Forests | Cap and Trade Offset Projects | Not applicable. The Project is in an area designated for urban uses. No forested lands exist on the site. |
| High Global Warming Potential | High Global Warming Potential Gases | CARB Refrigerant Management Program CCR 95380 | Consistent. The regulations are applicable to refrigerants used by large air conditioning systems and large commercial and industrial refrigerators and cold storage system. The Project would not conflict with the refrigerant management regulations adopted by CARB. |
| Agriculture | Agriculture | Cap and Trade Offset Projects for Livestock and Rice Cultivation | Not applicable. The project site is designated for urban development. No grazing, feedlot, or other agricultural activities that generate manure currently occur on-site or are proposed to be implemented by the Project. |
| Source: California Air Resources Board, <i>California’s 2017 Climate Change Scoping Plan</i> , November 2017 and CARB, <i>Climate Change Scoping Plan</i> , December 2008. | | | |

2022 Scoping Plan

Adopted December 15, 2022, CARB's *2022 Scoping Plan for Achieving Carbon Neutrality* (2022 Scoping Plan) sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen. The 2022 Scoping Plan sets one of the most aggressive approaches to reach carbon neutrality in the world. Unlike the 2017 Scoping Plan, CARB no longer includes a numeric per capita threshold and instead advocates for compliance with a local GHG reduction strategy (i.e., Climate Action Plan) consistent with CEQA Guidelines section 15183.5.

The key elements of the 2022 CARB Scoping Plan focus on transportation. Specifically, the 2022 Scoping Plan aims to rapidly move towards zero-emission (ZE) transportation (i.e., electrifying cars, buses, trains, and trucks), which constitutes California's single largest source of GHGs. The regulations that impact the transportation sector are adopted and enforced by CARB on vehicle manufacturers and are outside the jurisdiction and control of local governments. The 2022 Scoping Plan accelerates development of new regulations as well as amendments to strengthen regulations and programs already in place. Statewide strategies to reduce GHG emissions in the latest 2022 Scoping Plan include:

- Implementing SB 100 (achieve 100 percent clean electricity by 2045)
- Achieving 100 percent zero emission vehicle sales in 2035 through Advanced Clean Cars II
- Implementing the Advanced Clean Fleets regulation to deploy zero-emission vehicle (ZEV) buses and trucks

Additional transportation policies include the Off-Road Zero-Emission Targeted Manufacturer rule, Clean Off-Road Fleet Recognition Program, In-use Off-Road Diesel-Fueled Fleets Regulation, Clean Off-Road Fleet Recognition Program, and Amendments to the In-use Off-Road Diesel-Fueled Fleets Regulation. The 2022 Scoping Plan would continue to implement SB 375. GHGs would be further reduced through the Cap-and-Trade Program carbon pricing and SB 905. SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate carbon dioxide removal projects and technology.

As indicated above, GHG reductions are also achieved as a result of State of California energy and water efficiency requirements for new residential developments. These efficiency improvements correspond to reductions in secondary GHG emissions. For example, in California, most of the electricity that powers homes is derived from natural gas combustion. Therefore, energy saving measures, such as Title 24, reduces GHG emissions from the power generation facilities by reducing load demand.

Scoping Plan Appendix D, Local Actions

Included in the 2022 Scoping Plan is a set of Local Actions (2022 Scoping Plan Appendix D) aimed at providing local jurisdictions with tools to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan includes a section on

evaluating plan-level and project-level alignment with the State's Climate Goals in CEQA GHG analyses. In this section, CARB identifies several recommendations and strategies that should be considered for new development in order to determine consistency with the 2022 Scoping Plan. Notably, this section is focused on Residential and Mixed-Use Projects.¹⁵ CARB specifically states that Appendix D does not address other land uses (e.g., industrial).¹⁶ However, CARB plans to explore new approaches for other land use types in the future.¹⁷

CARB Scoping Plan Appendix D lists potential actions that support the State's climate goals. However, the Scoping Plan notes that the applicability and performance of the actions may vary across the regions. The document is organized into two categories (A) examples of plan-level GHG reduction actions that could be implemented by local governments and (B) examples of on-site project design features, mitigation measures, that could be required of individual projects under CEQA, if feasible, when the local jurisdiction is the lead agency.

The proposed Project would include a number of the potential mitigation measures for construction and operation. For example, the Scoping Plan's construction measures include enforcing idling time restrictions on construction vehicles, requiring construction vehicles to operate highest tier engines commercially available, diverting and recycling construction waste, minimizing tree removal, and increased use of electric and renewable fuel powered construction equipment and required renewable diesel fuel where commercially available. These measures are consistent with the requirements in **MM AQ-1** which requires the minimization of idling and the use of clean off-road engines.

Appendix D notes that residential and mixed-use projects that meet the following three priority areas are "clearly" consistent with the State's goals and projects that have these key project attributes should accommodate growth in a manner consistent with State GHG reduction and equity prioritization goals. Appendix D also notes that lead agencies may determine, with adequate additional supporting evidence, that projects that incorporate some, but not all, of the key project attributes are consistent with the State's climate goals.¹⁸

- **Transportation Electrification.** Table 3 in the 2022 Scoping Plan, Appendix D, notes that to be clearly consistent with the State's goals, projects should provide EV charging infrastructure that, at minimum, meets the most ambitious voluntary standard in the CALGreen code. The Project is consistent with this attribute as **MM GHG-2** requires Project EV charging to meet CALGreen Tier 2 standards.
- **VMT Reduction.** The Scoping Plan notes that to be consistent with the VMT reduction attribute, projects should be located on infill sites that are surrounded by existing urban uses and reuses or redevelops previously undeveloped or underutilized land that is presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer); do not result in the loss or conversion of natural and working lands; and consist of transit-supportive densities (minimum

¹⁵ California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality, Appendix D: Local Actions*, Page 21, November 2022.

¹⁶ California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality, Appendix D: Local Actions*, Page 4, November 2022.

¹⁷ California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality, Appendix D: Local Actions*, Page 21, November 2022.

¹⁸ California Air Resources Board, *2022 Scoping Plan for Achieving Carbon Neutrality, Appendix D: Local Actions*, Page 23, November 2022.

of 20 residential dwelling units per acre). The proposed Project is an infill project surrounded by existing urban uses, does not result in the loss of natural and working lands (i.e., it would redevelop and existing shopping center), and has a density of approximately 91 dwelling units per acre (3,750 dwelling units on a 41-acre site) (i.e., far greater than the minimum 20 dwelling units per acre to be considered a transit-supportive density). The Project is also locating high density residential and other uses next to existing commercial retail services, office, and other uses. The Project is an implementing action of the General Plan and provides residential housing units consistent with the General Plan and Housing Element. Furthermore, **MM AQ-4** (see the Project Air Quality Assessment) would reduce mobile source emissions through the implementation of a TDM program.

- **Building Decarbonization.** Building decarbonization involves maximizing energy efficiency and eliminating using fossil fuel energy. **MM GHG-1** requires the Project to include renewable solar energy, **MM GHG-2** requires the Project to meet CALGreen Tier 2 energy efficiency standards and use all electric appliances, **MM GHG-4** requires the use of electric landscape equipment, and **MM GHG-5** requires electric Energy Star rated appliances.

The proposed Project would include the Appendix D key residential and mixed-use project attributes as design features or mitigation (refer to **MM GHG-1** through **MM GHG-5**). As noted above, these measures include EV charging stations, TDM measures, transit-supportive densities, and building decarbonization, as well as providing bicycle parking, creating on-site and off-site safety improvements for bike, pedestrian, and transit connections, prohibiting wood-burning fireplaces, requiring solar panels, requiring low-water landscaping, requiring gas or electric outlets in residential backyards, requiring energy conserving appliances, and requiring low-flow toilets and faucets.

Conclusion

The proposed Project would be consistent with the City's CAP, SCAG's RTP/SCS, the CARB Scoping Plan, and would be required to comply with existing regulations, including applicable measures from the City's General Plan. The Project would be directly affected by the outcomes (vehicle trips and energy consumption would be less carbon intensive due to statewide compliance with future low carbon fuel standard amendments and increasingly stringent Renewable Portfolio Standards). As such, the Project would not conflict with any other State-level regulations pertaining to GHGs.

As shown in **Table 5**, approximately 90 percent of the Project's GHG emissions are from energy and mobile sources which would be further reduced by the 2022 Scoping Plan goals described above (including achieve 100 percent clean electricity by 2045 [SB 100], achieving 100 percent zero emission vehicle sales in 2035 [Advanced Clean Cars II], and implementing the Advanced Clean Fleets regulation [ZEV buses and trucks]). The City has no control over vehicle emissions (approximately 61 percent of the Project's total emissions). However, these emissions would decline in the future due to statewide measures discussed above (including the reduction in fuels' carbon content, CARB's Advanced Clean Car Program, CARB's Mobile Source Strategy, fuel efficiency standards, etc.), as well as cleaner technology and fleet turnover. SCAG's 2020 RTP/SCS is also expected to help California reach its GHG reduction goals, with reductions in per capita transportation emissions of 19 percent by 2035.¹⁹ The Project includes a mix of residential,

¹⁹ California Air Resources Board, *SB 375 Regional Plan Climate Targets*, <https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets>

hotel, and commercial land uses that would potentially reducing the need to travel long distances for some residents and reducing associated GHG emissions.²⁰

At this time it is not possible to quantify the emissions savings from future regulatory measures that have not yet been developed; nevertheless, it can be anticipated that Project operations would benefit from applicable measures are enacted to meet State GHG reduction goals. The Project would not impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The Project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan.

As identified in the Project's Air Quality Assessment, **MM AQ-4** would reduce mobile source emissions through the implementation of a TDM program. LORs GHG-1 through GHG-5, as required by the California Building Code, would provide designated parking to promote the use of alternative fuels and clean fleets, water-efficient irrigation systems and devices, Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste, facilitate future installation of electric vehicle supply equipment, and limit idling times. Further, **MM GHG-1** requires the Project to install solar photovoltaic systems and **MM GHG-2** requires the Project to meet or exceed CALGreen Tier 2 standards to further improve energy efficiency. **MM GHG-3** requires the Project to divert 75 percent of waste from landfills.

The General Plan EIR concluded that buildout of land uses under the General Plan Update would result in a net decrease in emissions (255,878 MTCO₂e, a 12 percent decrease in GHG emissions from existing conditions). General Plan Update buildout would also reduce emissions per service population from existing conditions. The General Plan Update policies would contribute to reducing energy sector emissions through increasing energy efficiency, energy conservation, and use of renewable energy. For example, policy 1.12 of the conservation element encourages use of low emission modes of travel by supporting development of sustainable infrastructure. Policy 4.3 of the land use element and policy 2.11 of the urban design element all encourage strategies to reduce consumption of resources, promote sustainable development building practices. The General Plan EIR determined that implementation of these policies, in addition to the other proposed policies of the General Plan Update would contribute to minimizing GHG emissions associated with the City. The Project would be consistent with these policies through the implementation of the mitigation identified above and the Project proposes a specific plan that would be consistent with the buildout assumptions and applicable development standards of the General Plan.

In conclusion, the Project does not conflict with the applicable plans that are discussed above. Therefore, impacts would be less than significant with mitigation incorporated.

Laws, Ordinances, and Regulations:

LORs are existing requirements that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical LORs include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because LORs are neither project-specific nor a result of development of the Project, they are not considered to be either Project Design Features or Mitigation Measures.

²⁰ The California Air Pollution Control Officers Association, *Quantifying Greenhouse Gas Mitigation Measures* (August 2010) identifies that infill developments, such as the proposed Project reduce vehicle miles traveled which reduces fuel consumption. Infill projects such as the proposed Project would have an improved location efficiency.

- LOR GHG-1** Require diesel powered construction equipment to turn off when not in use per Title 13 of the California Code of Regulations, Section 2449.
- LOR GHG-2** Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls and sensors for landscaping according to the City's Water Efficient Landscape requirements (Chapter 41 section 813 of the City's Municipal Code).
- LOR GHG-3** Provide bicycle parking facilities in accordance with Santa Ana Municipal Code Section 41.1307.1.
- LOR GHG-4** The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10(b)) require buildings to be designed to have no less than 15 percent of the total roof area of the building excluding any skylight area be "solar ready" which will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.
- LOR GHG-5** The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:
- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with Section 4.303 (residential) and Section 5.303 (nonresidential) of the California Green Building Standards Code Part 11.
 - Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 4.408.1 (residential) and Section 5.408.1 (nonresidential) of the California Green Building Standards Code Part 11.
 - Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with Section 4.410 (residential) and Section 5.410 (nonresidential) of the California Green Building Standards Code Part 11.
 - To facilitate future installation of electric vehicle supply equipment (EVSE), residential construction shall comply with Section 4.106.4 (residential electric vehicle charging) of the California Green Building Standards Code Part 11 and nonresidential construction shall comply with Section 5.106.5.3 (nonresidential electric vehicle charging) of the California Green Building Standards Code Part 11.

Mitigation Measures: Refer to **MM AQ-1** through **MM AQ-7** in the Air Quality Assessment. The Santa Ana General Plan EIR includes Mitigation Measure GHG-1, which would ensure that the City is tracking and monitoring the City's GHG emissions in order to chart a trajectory to achieve the long-term year GHG reduction goals. The following additional mitigation is also required.

- MM GHG-1** The Project shall be required to install solar photovoltaic (PV) panels or other source of renewable electricity generation on-site, based on the maximum roof area available for

solar (i.e., solar-ready zone). The solar-ready zone shall comply with Section 110.10 of the 2022 California Energy Code and shall comply with access, pathway, ventilation, and spacing requirements, and exclude skylight area.

The final PV generation facility size requires approval by Southern California Edison (SCE). SCE's Rule 21 governs operating and metering requirements for any facility connected to SCE's distribution system. Should SCE limit the off-site export, the proposed Project may utilize a battery energy storage system (BESS) to lower off-site export while maintaining on-site renewable generation to off-set consumption.

The electrical system and infrastructure must be clearly labeled with noticeable and permanent signage. The schedule of photovoltaic system locations may be updated as needed.

MM GHG-2 Prior to the issuance of a Phase 1, Phase 2, or Phase 3 building permits, the Project Applicant or successor in interest shall provide documentation to the City of Santa Ana demonstrating the following:

- The Project shall be designed to achieve Leadership in Energy and Environmental Design (LEED) certification to meet or exceed CALGreen Tier 2 standards in effect at the time of building permit application in order to exceed 2022 Title 24 energy efficiency standards.
- The Project shall provide facilities to support electric charging stations per the Tier 2 standards in Section A5.106.5.3 (Nonresidential Voluntary Measures) and Section A5.106.8.2 (Residential Voluntary Measures) of the 2022 CALGreen Code.
- The Applicant shall coordinate with the City of Santa Ana and Orange County Transit Authority to ensure that bus pad and shelter improvements are incorporated, as appropriate.

MM GHG-3 The development (Phase 1, Phase 2, and Phase 3) shall divert a minimum of 75 percent of landfill waste. Prior to issuance of certificate of occupancy, a recyclables collection and load area shall be constructed in compliance with the City standards for Recyclable Collection and Loading Areas.

MM GHG-4 Prior to the issuance of Phase 1, Phase 2, or Phase 3 occupancy permits, the Planning and Building Department shall confirm that tenant lease agreements include contractual language that all landscaping equipment used on site shall be 100 percent electrically powered. This requirement shall be included in the third-party vendor agreements for landscape services for the building owner and tenants, as applicable.

MM GHG-5 For residential projects, all major applicant provided in-unit appliances (e.g., dishwashers, refrigerators, clothes washers and dryers, water heaters, and for space heating) provided/installed shall be electric (i.e., appliances that do not use natural gas, propane, or other fossil fuels) and Energy Star certified or of equivalent energy efficiency where applicable. Prior to the issuance of the certificate of occupancy, the City of Santa Ana shall verify implementation of this requirement. Installation of electric Energy Star-certified or equivalent appliances shall be verified by the Planning and Building Department during plan check.

Level of Significance: Less than significant with mitigation incorporated. The City of Santa Ana General Plan Update Program EIR found that GHG impacts would be significant and unavoidable. In certifying the

General Plan Update Program EIR and approving the General Plan project, the City Council approved a Statement of Overriding Considerations, which notes that there are specific economic, social, and other public benefits that outweigh the significant unavoidable impacts associated with the General Plan project. The General Plan EIR acknowledges that individual projects accommodated under the General Plan Update may not exceed the SCAQMD thresholds and could have less than significant impacts. The analysis above demonstrates that the Project's GHG emissions would be less than significant with mitigation. Therefore, the impacts identified in this EIR with respect to GHG emissions would be less than what was anticipated in the General Plan Findings of Fact and Statement of Overriding Considerations.

5.2 Cumulative Setting, Impacts, and Mitigation Measures

Cumulative Setting

Climate change is a global problem. GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants, which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (approximately one day), GHGs have much longer atmospheric lifetimes of one year to several thousand years that allow them to be dispersed around the globe.

Cumulative Impacts

It is generally the case that an individual project of this size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts; there are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of Project-related GHGs would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the proposed Project as well as other cumulative related projects, would be subject to all applicable regulatory requirements, which would further reduce GHG emissions. The proposed Project would be consistent with the applicable GHG reduction plans, including City's CAP, SCAG's Connect SoCal, and the CARB Scoping Plan. As a result, the Project would not conflict with any applicable GHG reduction plans and the Project's cumulative contribution of GHG emissions would be less than cumulatively considerable.

Mitigation Measures: Refer to **MM AQ-1** through **MM AQ-7** in the Air Quality Assessment and **MM GHG-1** through **MM GHG-5**, above.

Level of Significance: Less than significant with mitigation incorporated.

6 REFERENCES

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2. California Air Resources Board, *Appendix B: Emissions Estimation Methodology of On-Road Diesel-Fueled Heavy-Duty Drayage Trucks at California Ports and Intermodal Rail Yards*. Table II-7. https://ww3.arb.ca.gov/msei/onroad/downloads/drayage_trucks/appbf.pdf
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5. City of Santa Ana, *City of Santa Ana General Plan*, April 2022.
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Appendix A

Greenhouse Gas Emissions Data

Bristol Phase 1 Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

| Data Field | Value |
|-----------------------------|--|
| Project Name | Bristol Phase 1 |
| Construction Start Date | 1/1/2026 |
| Operational Year | 2030 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.697094661824195, -117.8872992391776 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 | 1,375 | Dwelling Unit | 7.60 | 1,513,074 | — | — | 4,098 | — |
| Retirement Community | 200 | Dwelling Unit | 1.13 | 225,000 | — | — | 596 | — |
| Regional Shopping Center | 250 | 1000sqft | 1.26 | 250,000 | — | — | — | — |
| Enclosed Parking with Elevator | 1,406 | 1000sqft | 7.06 | 1,405,500 | — | — | — | — |
| Other Asphalt Surfaces | 285 | 1000sqft | 0.09 | 0.00 | — | — | — | — |
| City Park | 1.72 | Acre | 1.72 | 0.00 | 75,000 | 75,000 | — | — |
| Hotel | 250 | Room | 0.75 | 363,000 | — | — | — | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|----------------|---------|--|
| Construction | C-2* | Limit Heavy-Duty Diesel Vehicle Idling |
| Construction | C-5 | Use Advanced Engine Tiers |
| Construction | C-12 | Sweep Paved Roads |
| Construction | C-13 | Use Low-VOC Paints for Construction |
| Transportation | T-1 | Increase Residential Density |
| Transportation | T-5 | Implement Commute Trip Reduction Program (Voluntary) |
| Transportation | T-11* | Provide Employer-Sponsored Vanpool |
| Transportation | T-14* | Provide Electric Vehicle Charging Infrastructure |
| Transportation | T-31-A* | Locate Project in Area with High Destination Accessibility |
| Energy | E-1 | Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards |
| Energy | E-2 | Require Energy Efficient Appliances |
| Area Sources | LL-1 | Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment |
| Area Sources | AS-2 | Use Low-VOC Paints |

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 34.2 | 20.4 | 313 | 286 | 1.21 | 8.33 | 59.7 | 61.9 | 7.79 | 14.4 | 19.2 | — | 165,336 | 165,336 | 11.1 | 20.1 | 256 | 171,858 |
| Mit. | 16.6 | 12.9 | 158 | 240 | 0.96 | 1.85 | 59.7 | 60.2 | 1.85 | 14.4 | 14.8 | — | 138,941 | 138,941 | 10.0 | 19.9 | 256 | 145,373 |
| % Reduced | 51% | 37% | 49% | 16% | 20% | 78% | — | 3% | 76% | — | 23% | — | 16% | 16% | 10% | 1% | — | 15% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 23.5 | 131 | 175 | 272 | 0.46 | 7.46 | 59.7 | 62.2 | 6.86 | 14.4 | 16.7 | — | 94,212 | 94,212 | 3.76 | 6.39 | 6.69 | 96,194 |
| Mit. | 17.0 | 24.3 | 56.8 | 226 | 0.33 | 0.62 | 59.7 | 60.2 | 0.62 | 14.4 | 14.8 | — | 85,039 | 85,039 | 3.20 | 6.32 | 6.69 | 86,989 |
| % Reduced | 28% | 82% | 68% | 17% | 29% | 92% | — | 3% | 91% | — | 11% | — | 10% | 10% | 15% | 1% | — | 10% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 18.9 | 26.5 | 147 | 190 | 0.46 | 4.43 | 42.2 | 43.7 | 4.11 | 10.1 | 11.6 | — | 69,638 | 69,638 | 3.85 | 6.77 | 71.7 | 71,803 |
| Mit. | 11.8 | 9.13 | 57.4 | 158 | 0.34 | 0.64 | 42.2 | 42.6 | 0.64 | 10.1 | 10.5 | — | 60,205 | 60,205 | 3.31 | 6.66 | 71.7 | 61,615 |
| % Reduced | 37% | 66% | 61% | 17% | 27% | 85% | — | 3% | 84% | — | 10% | — | 14% | 14% | 14% | 2% | — | 14% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.44 | 4.83 | 26.9 | 34.7 | 0.08 | 0.81 | 7.71 | 7.98 | 0.75 | 1.85 | 2.12 | — | 11,529 | 11,529 | 0.64 | 1.12 | 11.9 | 11,888 |
| Mit. | 2.16 | 1.67 | 10.5 | 28.8 | 0.06 | 0.12 | 7.71 | 7.77 | 0.12 | 1.85 | 1.91 | — | 9,968 | 9,968 | 0.55 | 1.10 | 11.9 | 10,201 |

| | | | | | | | | | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|---|----|-----|---|-----|---|-----|-----|-----|----|---|-----|
| % Reduced | 37% | 66% | 61% | 17% | 27% | 85% | — | 3% | 84% | — | 10% | — | 14% | 14% | 14% | 2% | — | 14% |
|-----------|-----|-----|-----|-----|-----|-----|---|----|-----|---|-----|---|-----|-----|-----|----|---|-----|

2.2. Construction Emissions by Year, Unmitigated

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

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 34.2 | 20.4 | 313 | 236 | 1.21 | 8.33 | 38.9 | 47.2 | 7.79 | 11.4 | 19.2 | — | 165,336 | 165,336 | 11.1 | 20.1 | 256 | 171,858 |
| 2027 | 22.8 | 18.0 | 98.7 | 286 | 0.36 | 2.24 | 59.7 | 61.9 | 2.08 | 14.4 | 16.4 | — | 95,221 | 95,221 | 2.66 | 6.17 | 232 | 97,357 |
| 2028 | 22.0 | 17.4 | 93.0 | 275 | 0.36 | 2.03 | 59.7 | 61.7 | 1.88 | 14.4 | 16.2 | — | 93,617 | 93,617 | 2.62 | 4.57 | 208 | 95,252 |
| 2029 | 4.99 | 4.43 | 38.9 | 62.1 | 0.08 | 1.43 | 0.78 | 2.22 | 1.32 | 0.18 | 1.50 | — | 9,805 | 9,805 | 0.38 | 0.08 | 1.94 | 9,840 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 23.5 | 20.2 | 175 | 272 | 0.46 | 7.46 | 59.7 | 62.2 | 6.86 | 14.4 | 16.7 | — | 94,212 | 94,212 | 3.76 | 6.39 | 6.69 | 96,194 |
| 2027 | 22.8 | 17.9 | 100 | 260 | 0.36 | 2.24 | 59.7 | 61.9 | 2.08 | 14.4 | 16.4 | — | 92,818 | 92,818 | 2.73 | 6.17 | 6.04 | 94,730 |
| 2028 | 21.9 | 17.3 | 96.1 | 249 | 0.36 | 2.03 | 59.7 | 61.7 | 1.88 | 14.4 | 16.2 | — | 91,260 | 91,260 | 2.73 | 6.17 | 5.39 | 93,171 |
| 2029 | 21.2 | 131 | 91.1 | 239 | 0.36 | 1.88 | 59.7 | 61.6 | 1.75 | 14.4 | 16.1 | — | 89,673 | 89,673 | 2.62 | 6.17 | 4.80 | 91,581 |
| 2030 | 3.08 | 131 | 6.72 | 34.5 | 0.01 | 0.07 | 10.2 | 10.3 | 0.06 | 2.40 | 2.46 | — | 9,864 | 9,864 | 0.14 | 0.06 | 0.58 | 9,885 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 18.9 | 13.6 | 147 | 154 | 0.46 | 4.43 | 24.9 | 29.3 | 4.11 | 6.87 | 11.0 | — | 69,638 | 69,638 | 3.85 | 6.77 | 50.9 | 71,803 |
| 2027 | 16.3 | 12.8 | 72.9 | 190 | 0.26 | 1.60 | 42.1 | 43.7 | 1.49 | 10.1 | 11.6 | — | 66,757 | 66,757 | 1.95 | 4.40 | 71.7 | 68,190 |
| 2028 | 15.7 | 12.5 | 68.8 | 184 | 0.26 | 1.45 | 42.2 | 43.7 | 1.35 | 10.1 | 11.5 | — | 65,816 | 65,816 | 1.95 | 4.42 | 64.4 | 67,246 |
| 2029 | 3.93 | 26.5 | 22.9 | 47.5 | 0.06 | 0.73 | 5.72 | 6.44 | 0.67 | 1.36 | 2.03 | — | 11,375 | 11,375 | 0.34 | 0.48 | 7.17 | 11,535 |
| 2030 | 0.53 | 22.6 | 1.16 | 6.19 | < 0.005 | 0.01 | 1.74 | 1.75 | 0.01 | 0.41 | 0.42 | — | 1,720 | 1,720 | 0.02 | 0.01 | 1.66 | 1,725 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|---------|---------|------|------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| 2026 | 3.44 | 2.48 | 26.9 | 28.1 | 0.08 | 0.81 | 4.55 | 5.36 | 0.75 | 1.25 | 2.00 | — | 11,529 | 11,529 | 0.64 | 1.12 | 8.43 | 11,888 |
| 2027 | 2.97 | 2.33 | 13.3 | 34.7 | 0.05 | 0.29 | 7.69 | 7.98 | 0.27 | 1.85 | 2.12 | — | 11,052 | 11,052 | 0.32 | 0.73 | 11.9 | 11,290 |
| 2028 | 2.87 | 2.28 | 12.6 | 33.5 | 0.05 | 0.26 | 7.71 | 7.97 | 0.25 | 1.85 | 2.10 | — | 10,897 | 10,897 | 0.32 | 0.73 | 10.7 | 11,133 |
| 2029 | 0.72 | 4.83 | 4.19 | 8.66 | 0.01 | 0.13 | 1.04 | 1.18 | 0.12 | 0.25 | 0.37 | — | 1,883 | 1,883 | 0.06 | 0.08 | 1.19 | 1,910 |
| 2030 | 0.10 | 4.12 | 0.21 | 1.13 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.07 | 0.08 | — | 285 | 285 | < 0.005 | < 0.005 | 0.27 | 286 |

2.3. Construction Emissions by Year, Mitigated

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

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 13.8 | 3.43 | 158 | 141 | 0.96 | 1.85 | 38.9 | 40.7 | 1.85 | 11.4 | 13.2 | — | 138,941 | 138,941 | 10.0 | 19.9 | 256 | 145,373 |
| 2027 | 16.6 | 12.9 | 51.2 | 240 | 0.28 | 0.50 | 59.7 | 60.2 | 0.48 | 14.4 | 14.8 | — | 86,048 | 86,048 | 2.29 | 6.09 | 232 | 88,153 |
| 2028 | 16.1 | 12.5 | 48.2 | 229 | 0.28 | 0.50 | 59.7 | 60.2 | 0.48 | 14.4 | 14.8 | — | 84,442 | 84,442 | 2.25 | 4.50 | 208 | 86,046 |
| 2029 | 0.51 | 0.71 | 4.02 | 23.8 | 0.03 | 0.06 | 0.78 | 0.84 | 0.06 | 0.18 | 0.24 | — | 3,763 | 3,763 | 0.13 | 0.03 | 1.94 | 3,777 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 17.0 | 14.9 | 56.8 | 226 | 0.33 | 0.62 | 59.7 | 60.2 | 0.62 | 14.4 | 14.8 | — | 85,039 | 85,039 | 3.20 | 6.32 | 6.69 | 86,989 |
| 2027 | 16.6 | 12.8 | 52.7 | 214 | 0.28 | 0.50 | 59.7 | 60.2 | 0.48 | 14.4 | 14.8 | — | 83,645 | 83,645 | 2.36 | 6.09 | 6.04 | 85,525 |
| 2028 | 15.9 | 12.4 | 51.3 | 204 | 0.28 | 0.50 | 59.7 | 60.2 | 0.48 | 14.4 | 14.8 | — | 82,086 | 82,086 | 2.36 | 6.09 | 5.39 | 83,966 |
| 2029 | 15.5 | 24.3 | 48.3 | 194 | 0.28 | 0.49 | 59.7 | 60.2 | 0.48 | 14.4 | 14.8 | — | 80,501 | 80,501 | 2.25 | 6.09 | 4.80 | 82,378 |
| 2030 | 2.41 | 24.2 | 3.30 | 29.8 | < 0.005 | < 0.005 | 10.2 | 10.2 | < 0.005 | 2.40 | 2.40 | — | 9,330 | 9,330 | 0.11 | 0.05 | 0.58 | 9,349 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 7.14 | 3.86 | 57.4 | 93.3 | 0.34 | 0.64 | 24.9 | 25.6 | 0.64 | 6.87 | 7.51 | — | 56,272 | 56,272 | 3.31 | 6.66 | 50.9 | 58,391 |
| 2027 | 11.8 | 9.13 | 38.9 | 158 | 0.20 | 0.36 | 42.1 | 42.5 | 0.35 | 10.1 | 10.5 | — | 60,205 | 60,205 | 1.68 | 4.35 | 71.7 | 61,615 |
| 2028 | 11.5 | 8.97 | 36.7 | 151 | 0.20 | 0.36 | 42.2 | 42.6 | 0.35 | 10.1 | 10.5 | — | 59,245 | 59,245 | 1.69 | 4.36 | 64.4 | 60,652 |

| | | | | | | | | | | | | | | | | | | |
|--------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|--------|
| 2029 | 1.59 | 5.38 | 5.20 | 27.9 | 0.03 | 0.05 | 5.72 | 5.77 | 0.05 | 1.36 | 1.41 | — | 8,206 | 8,206 | 0.21 | 0.46 | 7.17 | 8,355 |
| 2030 | 0.41 | 4.17 | 0.57 | 5.38 | < 0.005 | < 0.005 | 1.74 | 1.74 | < 0.005 | 0.41 | 0.41 | — | 1,628 | 1,628 | 0.02 | 0.01 | 1.66 | 1,633 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 1.30 | 0.71 | 10.5 | 17.0 | 0.06 | 0.12 | 4.55 | 4.67 | 0.12 | 1.25 | 1.37 | — | 9,316 | 9,316 | 0.55 | 1.10 | 8.43 | 9,667 |
| 2027 | 2.16 | 1.67 | 7.10 | 28.8 | 0.04 | 0.07 | 7.69 | 7.75 | 0.06 | 1.85 | 1.91 | — | 9,968 | 9,968 | 0.28 | 0.72 | 11.9 | 10,201 |
| 2028 | 2.10 | 1.64 | 6.70 | 27.5 | 0.04 | 0.06 | 7.71 | 7.77 | 0.06 | 1.85 | 1.91 | — | 9,809 | 9,809 | 0.28 | 0.72 | 10.7 | 10,042 |
| 2029 | 0.29 | 0.98 | 0.95 | 5.09 | 0.01 | 0.01 | 1.04 | 1.05 | 0.01 | 0.25 | 0.26 | — | 1,359 | 1,359 | 0.03 | 0.08 | 1.19 | 1,383 |
| 2030 | 0.08 | 0.76 | 0.10 | 0.98 | < 0.005 | < 0.005 | 0.32 | 0.32 | < 0.005 | 0.07 | 0.07 | — | 270 | 270 | < 0.005 | < 0.005 | 0.27 | 270 |

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. | 72.9 | 122 | 34.3 | 477 | 0.81 | 1.18 | 29.6 | 30.7 | 1.20 | 5.24 | 6.44 | 1,218 | 114,865 | 116,083 | 129 | 3.82 | 752 | 121,185 |
| Mit. | 42.5 | 90.4 | 28.3 | 252 | 0.67 | 0.91 | 24.5 | 25.4 | 0.89 | 4.34 | 5.23 | 1,218 | 98,648 | 99,865 | 128 | 3.30 | 723 | 104,765 |
| % Reduced | 42% | 26% | 18% | 47% | 17% | 23% | 17% | 17% | 26% | 17% | 19% | — | 14% | 14% | 1% | 14% | 4% | 14% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 48.9 | 100.0 | 34.9 | 286 | 0.77 | 1.03 | 29.6 | 30.6 | 1.01 | 5.24 | 6.24 | 1,218 | 111,385 | 112,602 | 129 | 3.96 | 587 | 117,586 |
| Mit. | 42.4 | 90.2 | 30.1 | 242 | 0.64 | 0.91 | 24.5 | 25.4 | 0.89 | 4.34 | 5.23 | 1,218 | 96,116 | 97,334 | 128 | 3.42 | 586 | 102,137 |
| % Reduced | 13% | 10% | 14% | 15% | 16% | 12% | 17% | 17% | 11% | 17% | 16% | — | 14% | 14% | 1% | 14% | < 0.5% | 13% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 64.6 | 115 | 35.7 | 408 | 0.77 | 1.13 | 28.8 | 30.0 | 1.13 | 5.11 | 6.24 | 1,218 | 110,808 | 112,026 | 129 | 3.91 | 654 | 117,060 |

| | | | | | | | | | | | | | | | | | | |
|--------------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|------|------|-----|---------|
| Mit. | 41.8 | 89.7 | 29.8 | 241 | 0.63 | 0.91 | 23.8 | 24.7 | 0.88 | 4.21 | 5.10 | 1,218 | 95,135 | 96,353 | 128 | 3.37 | 641 | 101,194 |
| % Reduced | 35% | 22% | 16% | 41% | 17% | 20% | 17% | 18% | 22% | 17% | 18% | — | 14% | 14% | 1% | 14% | 2% | 14% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 11.8 | 20.9 | 6.51 | 74.4 | 0.14 | 0.21 | 5.26 | 5.47 | 0.21 | 0.93 | 1.14 | 202 | 18,346 | 18,547 | 21.3 | 0.65 | 108 | 19,381 |
| Mit. | 7.63 | 16.4 | 5.44 | 44.0 | 0.12 | 0.17 | 4.34 | 4.51 | 0.16 | 0.77 | 0.93 | 202 | 15,751 | 15,952 | 21.2 | 0.56 | 106 | 16,754 |
| % Reduced | 35% | 22% | 16% | 41% | 17% | 20% | 17% | 18% | 22% | 17% | 18% | — | 14% | 14% | 1% | 14% | 2% | 14% |

2.5. Operations Emissions by Sector, Unmitigated

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

| Sector | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|-------|---------|---------|------|------|------|---------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 48.2 | 44.8 | 24.9 | 295 | 0.75 | 0.41 | 29.6 | 30.0 | 0.38 | 5.24 | 5.62 | — | 76,629 | 76,629 | 3.81 | 3.19 | 170 | 77,845 |
| Area | 23.8 | 77.1 | 1.57 | 177 | 0.01 | 0.15 | — | 0.15 | 0.20 | — | 0.20 | 0.00 | 600 | 600 | 0.03 | 0.01 | — | 602 |
| Energy | 0.90 | 0.45 | 7.90 | 4.69 | 0.05 | 0.62 | — | 0.62 | 0.62 | — | 0.62 | — | 36,787 | 36,787 | 2.54 | 0.22 | — | 36,916 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 72.9 | 122 | 34.3 | 477 | 0.81 | 1.18 | 29.6 | 30.7 | 1.20 | 5.24 | 6.44 | 1,218 | 114,865 | 116,083 | 129 | 3.82 | 752 | 121,185 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 48.0 | 44.6 | 27.0 | 281 | 0.72 | 0.41 | 29.6 | 30.0 | 0.38 | 5.24 | 5.62 | — | 73,748 | 73,748 | 4.00 | 3.34 | 4.40 | 74,847 |
| Area | 0.00 | 54.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.90 | 0.45 | 7.90 | 4.69 | 0.05 | 0.62 | — | 0.62 | 0.62 | — | 0.62 | — | 36,787 | 36,787 | 2.54 | 0.22 | — | 36,916 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |

| | | | | | | | | | | | | | | | | | | |
|---------------|------|-------|------|------|---------|------|------|------|------|------|------|-------|---------|---------|---------|---------|------|---------|
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 48.9 | 100.0 | 34.9 | 286 | 0.77 | 1.03 | 29.6 | 30.6 | 1.01 | 5.24 | 6.24 | 1,218 | 111,385 | 112,602 | 129 | 3.96 | 587 | 117,586 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 47.4 | 44.0 | 26.7 | 281 | 0.71 | 0.40 | 28.8 | 29.2 | 0.38 | 5.11 | 5.48 | — | 72,761 | 72,761 | 3.92 | 3.28 | 71.4 | 73,909 |
| Area | 16.3 | 70.1 | 1.08 | 122 | 0.01 | 0.10 | — | 0.10 | 0.13 | — | 0.13 | 0.00 | 411 | 411 | 0.02 | < 0.005 | — | 412 |
| Energy | 0.90 | 0.45 | 7.90 | 4.69 | 0.05 | 0.62 | — | 0.62 | 0.62 | — | 0.62 | — | 36,787 | 36,787 | 2.54 | 0.22 | — | 36,916 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 64.6 | 115 | 35.7 | 408 | 0.77 | 1.13 | 28.8 | 30.0 | 1.13 | 5.11 | 6.24 | 1,218 | 110,808 | 112,026 | 129 | 3.91 | 654 | 117,060 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 8.65 | 8.03 | 4.87 | 51.3 | 0.13 | 0.07 | 5.26 | 5.33 | 0.07 | 0.93 | 1.00 | — | 12,046 | 12,046 | 0.65 | 0.54 | 11.8 | 12,236 |
| Area | 2.97 | 12.8 | 0.20 | 22.2 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 0.00 | 68.0 | 68.0 | < 0.005 | < 0.005 | — | 68.3 |
| Energy | 0.16 | 0.08 | 1.44 | 0.86 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | — | 6,090 | 6,090 | 0.42 | 0.04 | — | 6,112 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 26.6 | 141 | 167 | 2.74 | 0.07 | — | 255 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 175 | 0.00 | 175 | 17.5 | 0.00 | — | 612 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 96.4 | 96.4 |
| Total | 11.8 | 20.9 | 6.51 | 74.4 | 0.14 | 0.21 | 5.26 | 5.47 | 0.21 | 0.93 | 1.14 | 202 | 18,346 | 18,547 | 21.3 | 0.65 | 108 | 19,381 |

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 | 41.7 | 38.9 | 21.0 | 248 | 0.62 | 0.34 | 24.5 | 24.8 | 0.32 | 4.34 | 4.66 | — | 63,643 | 63,643 | 3.24 | 2.69 | 141 | 64,667 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|-------|--------|--------|------|------|------|---------|
| Area | 0.00 | 51.1 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.83 | 0.41 | 7.25 | 4.37 | 0.05 | 0.57 | — | 0.57 | 0.57 | — | 0.57 | — | 34,155 | 34,155 | 2.36 | 0.21 | — | 34,275 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 42.5 | 90.4 | 28.3 | 252 | 0.67 | 0.91 | 24.5 | 25.4 | 0.89 | 4.34 | 5.23 | 1,218 | 98,648 | 99,865 | 128 | 3.30 | 723 | 104,765 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 41.5 | 38.6 | 22.8 | 237 | 0.60 | 0.34 | 24.5 | 24.8 | 0.32 | 4.34 | 4.66 | — | 61,257 | 61,257 | 3.41 | 2.82 | 3.64 | 62,185 |
| Area | 0.00 | 51.1 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.83 | 0.41 | 7.25 | 4.37 | 0.05 | 0.57 | — | 0.57 | 0.57 | — | 0.57 | — | 34,010 | 34,010 | 2.35 | 0.21 | — | 34,130 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 42.4 | 90.2 | 30.1 | 242 | 0.64 | 0.91 | 24.5 | 25.4 | 0.89 | 4.34 | 5.23 | 1,218 | 96,116 | 97,334 | 128 | 3.42 | 586 | 102,137 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 41.0 | 38.1 | 22.5 | 237 | 0.59 | 0.34 | 23.8 | 24.1 | 0.31 | 4.21 | 4.53 | — | 60,176 | 60,176 | 3.34 | 2.76 | 58.9 | 61,142 |
| Area | 0.00 | 51.1 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.83 | 0.41 | 7.25 | 4.37 | 0.05 | 0.57 | — | 0.57 | 0.57 | — | 0.57 | — | 34,109 | 34,109 | 2.35 | 0.21 | — | 34,229 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Total | 41.8 | 89.7 | 29.8 | 241 | 0.63 | 0.91 | 23.8 | 24.7 | 0.88 | 4.21 | 5.10 | 1,218 | 95,135 | 96,353 | 128 | 3.37 | 641 | 101,194 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.48 | 6.96 | 4.11 | 43.2 | 0.11 | 0.06 | 4.34 | 4.40 | 0.06 | 0.77 | 0.83 | — | 9,963 | 9,963 | 0.55 | 0.46 | 9.76 | 10,123 |
| Area | 0.00 | 9.33 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.15 | 0.08 | 1.32 | 0.80 | 0.01 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 5,647 | 5,647 | 0.39 | 0.03 | — | 5,667 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|
| Water | — | — | — | — | — | — | — | — | — | — | — | 26.6 | 141 | 167 | 2.74 | 0.07 | — | 255 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 175 | 0.00 | 175 | 17.5 | 0.00 | — | 612 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 96.4 | 96.4 |
| Total | 7.63 | 16.4 | 5.44 | 44.0 | 0.12 | 0.17 | 4.34 | 4.51 | 0.16 | 0.77 | 0.93 | 202 | 15,751 | 15,952 | 21.2 | 0.56 | 106 | 16,754 |

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 16.3 | 13.7 | 124 | 114 | 0.20 | 5.06 | — | 5.06 | 4.65 | — | 4.65 | — | 20,560 | 20,560 | 0.83 | 0.17 | — | 20,630 |
| Demolition | — | — | — | — | — | — | 15.5 | 15.5 | — | 2.35 | 2.35 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.88 | 1.58 | 14.3 | 13.1 | 0.02 | 0.58 | — | 0.58 | 0.54 | — | 0.54 | — | 2,366 | 2,366 | 0.10 | 0.02 | — | 2,374 |
| Demolition | — | — | — | — | — | — | 1.79 | 1.79 | — | 0.27 | 0.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|---------|------|------|------|------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.34 | 0.29 | 2.60 | 2.39 | < 0.005 | 0.11 | — | 0.11 | 0.10 | — | 0.10 | — | 392 | 392 | 0.02 | < 0.005 | — | 393 |
| Demolition | — | — | — | — | — | — | 0.33 | 0.33 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.20 | 0.21 | 2.73 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 744 | 744 | 0.01 | 0.03 | 0.07 | 752 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 3.73 | 0.55 | 47.6 | 20.5 | 0.26 | 0.50 | 10.2 | 10.7 | 0.50 | 2.85 | 3.35 | — | 38,516 | 38,516 | 2.91 | 6.09 | 2.02 | 40,407 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.33 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 86.7 | 86.7 | < 0.005 | < 0.005 | 0.13 | 87.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.43 | 0.06 | 5.54 | 2.35 | 0.03 | 0.06 | 1.16 | 1.22 | 0.06 | 0.33 | 0.38 | — | 4,431 | 4,431 | 0.34 | 0.70 | 3.87 | 4,652 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 14.4 | 14.4 | < 0.005 | < 0.005 | 0.02 | 14.5 |
| 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 | 0.08 | 0.01 | 1.01 | 0.43 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.07 | — | 734 | 734 | 0.06 | 0.12 | 0.64 | 770 |

3.2. Demolition (2026) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|------|---------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 0.72 | 9.01 | 36.3 | 0.07 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 6,853 | 6,853 | 0.28 | 0.06 | — | 6,877 |
| Demolition | — | — | — | — | — | — | 15.5 | 15.5 | — | 2.35 | 2.35 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.08 | 1.04 | 4.18 | 0.01 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 789 | 789 | 0.03 | 0.01 | — | 791 |
| Demolition | — | — | — | — | — | — | 1.79 | 1.79 | — | 0.27 | 0.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.19 | 0.76 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 131 | 131 | 0.01 | < 0.005 | — | 131 |
| Demolition | — | — | — | — | — | — | 0.33 | 0.33 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.21 | 0.20 | 0.21 | 2.73 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 744 | 744 | 0.01 | 0.03 | 0.07 | 752 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 3.73 | 0.55 | 47.6 | 20.5 | 0.26 | 0.50 | 10.2 | 10.7 | 0.50 | 2.85 | 3.35 | — | 38,516 | 38,516 | 2.91 | 6.09 | 2.02 | 40,407 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.33 | 0.00 | 0.00 | 0.09 | 0.09 | 0.00 | 0.02 | 0.02 | — | 86.7 | 86.7 | < 0.005 | < 0.005 | 0.13 | 87.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.43 | 0.06 | 5.54 | 2.35 | 0.03 | 0.06 | 1.16 | 1.22 | 0.06 | 0.33 | 0.38 | — | 4,431 | 4,431 | 0.34 | 0.70 | 3.87 | 4,652 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 14.4 | 14.4 | < 0.005 | < 0.005 | 0.02 | 14.5 |
| 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 | 0.08 | 0.01 | 1.01 | 0.43 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.07 | — | 734 | 734 | 0.06 | 0.12 | 0.64 | 770 |

3.3. Site Preparation (2026) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 22.4 | 18.9 | 175 | 173 | 0.29 | 7.46 | — | 7.46 | 6.86 | — | 6.86 | — | 31,788 | 31,788 | 1.29 | 0.26 | — | 31,897 |
| Dust From Material Movement | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 22.4 | 18.9 | 175 | 173 | 0.29 | 7.46 | — | 7.46 | 6.86 | — | 6.86 | — | 31,788 | 31,788 | 1.29 | 0.26 | — | 31,897 |
| Dust From Material Movement: | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.00 | 3.36 | 31.2 | 30.8 | 0.05 | 1.33 | — | 1.33 | 1.22 | — | 1.22 | — | 5,661 | 5,661 | 0.23 | 0.05 | — | 5,680 |
| Dust From Material Movement: | — | — | — | — | — | — | 1.82 | 1.82 | — | 0.94 | 0.94 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.73 | 0.61 | 5.69 | 5.62 | 0.01 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 937 | 937 | 0.04 | 0.01 | — | 940 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.33 | 0.33 | — | 0.17 | 0.17 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.24 | 0.21 | 3.69 | 0.00 | 0.00 | 0.91 | 0.91 | 0.00 | 0.21 | 0.21 | — | 912 | 912 | 0.01 | 0.03 | 3.17 | 925 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.24 | 0.24 | 3.18 | 0.00 | 0.00 | 0.91 | 0.91 | 0.00 | 0.21 | 0.21 | — | 867 | 867 | 0.01 | 0.03 | 0.08 | 878 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.04 | 0.59 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.04 | 0.04 | — | 157 | 157 | < 0.005 | 0.01 | 0.24 | 159 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.11 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.04 | 26.3 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.4. Site Preparation (2026) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 1.00 | 5.18 | 56.6 | 0.10 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 10,596 | 10,596 | 0.43 | 0.09 | — | 10,632 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Dust From Material Movement: | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 1.00 | 5.18 | 56.6 | 0.10 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 10,596 | 10,596 | 0.43 | 0.09 | — | 10,632 |
| Dust From Material Movement: | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.18 | 0.18 | 0.92 | 10.1 | 0.02 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 1,887 | 1,887 | 0.08 | 0.02 | — | 1,893 |
| Dust From Material Movement: | — | — | — | — | — | — | 1.82 | 1.82 | — | 0.94 | 0.94 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.17 | 1.84 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 312 | 312 | 0.01 | < 0.005 | — | 313 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.33 | 0.33 | — | 0.17 | 0.17 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.24 | 0.21 | 3.69 | 0.00 | 0.00 | 0.91 | 0.91 | 0.00 | 0.21 | 0.21 | — | 912 | 912 | 0.01 | 0.03 | 3.17 | 925 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.24 | 0.24 | 3.18 | 0.00 | 0.00 | 0.91 | 0.91 | 0.00 | 0.21 | 0.21 | — | 867 | 867 | 0.01 | 0.03 | 0.08 | 878 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.04 | 0.59 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.04 | 0.04 | — | 157 | 157 | < 0.005 | 0.01 | 0.24 | 159 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.11 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 25.9 | 25.9 | < 0.005 | < 0.005 | 0.04 | 26.3 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5. Grading (2026) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Off-Road Equipment | 21.7 | 18.3 | 163 | 165 | 0.37 | 6.73 | — | 6.73 | 6.19 | — | 6.19 | — | 39,591 | 39,591 | 1.61 | 0.32 | — | 39,727 |
| Dust From Material Movement | — | — | — | — | — | — | 4.89 | 4.89 | — | 1.92 | 1.92 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 5.24 | 4.40 | 39.4 | 39.9 | 0.09 | 1.62 | — | 1.62 | 1.49 | — | 1.49 | — | 9,545 | 9,545 | 0.39 | 0.08 | — | 9,578 |
| Dust From Material Movement | — | — | — | — | — | — | 1.18 | 1.18 | — | 0.46 | 0.46 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.96 | 0.80 | 7.19 | 7.28 | 0.02 | 0.30 | — | 0.30 | 0.27 | — | 0.27 | — | 1,580 | 1,580 | 0.06 | 0.01 | — | 1,586 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.08 | 0.08 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.27 | 0.24 | 4.22 | 0.00 | 0.00 | 1.05 | 1.05 | 0.00 | 0.25 | 0.25 | — | 1,042 | 1,042 | 0.01 | 0.04 | 3.62 | 1,057 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|---------|---------|------|---------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 12.2 | 1.89 | 149 | 65.9 | 0.84 | 1.60 | 32.9 | 34.5 | 1.60 | 9.24 | 10.8 | — | 124,702 | 124,702 | 9.47 | 19.7 | 252 | 131,074 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.07 | 0.91 | 0.00 | 0.00 | 0.25 | 0.25 | 0.00 | 0.06 | 0.06 | — | 242 | 242 | < 0.005 | 0.01 | 0.38 | 245 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 2.93 | 0.44 | 37.6 | 15.9 | 0.20 | 0.39 | 7.86 | 8.25 | 0.39 | 2.21 | 2.59 | — | 30,070 | 30,070 | 2.28 | 4.76 | 26.3 | 31,571 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.01 | 0.01 | 0.01 | 0.17 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 40.1 | 40.1 | < 0.005 | < 0.005 | 0.06 | 40.6 | |
| 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 | 0.53 | 0.08 | 6.86 | 2.91 | 0.04 | 0.07 | 1.43 | 1.51 | 0.07 | 0.40 | 0.47 | — | 4,978 | 4,978 | 0.38 | 0.79 | 4.35 | 5,227 | |

3.6. Grading (2026) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.28 | 1.28 | 8.85 | 70.7 | 0.12 | 0.25 | — | 0.25 | 0.25 | — | 0.25 | — | 13,197 | 13,197 | 0.54 | 0.11 | — | 13,242 |
| Dust From Material Movement | — | — | — | — | — | — | 4.89 | 4.89 | — | 1.92 | 1.92 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|---------|---------|------|---------|------|---------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.31 | 0.31 | 2.13 | 17.0 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,182 | 3,182 | 0.13 | 0.03 | — | 3,193 |
| Dust From Material Movement | — | — | — | — | — | — | 1.18 | 1.18 | — | 0.46 | 0.46 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.06 | 0.39 | 3.11 | 0.01 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 527 | 527 | 0.02 | < 0.005 | — | 529 |
| Dust From Material Movement | — | — | — | — | — | — | 0.21 | 0.21 | — | 0.08 | 0.08 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.27 | 0.24 | 4.22 | 0.00 | 0.00 | 1.05 | 1.05 | 0.00 | 0.25 | 0.25 | — | 1,042 | 1,042 | 0.01 | 0.04 | 3.62 | 1,057 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 12.2 | 1.89 | 149 | 65.9 | 0.84 | 1.60 | 32.9 | 34.5 | 1.60 | 9.24 | 10.8 | — | 124,702 | 124,702 | 9.47 | 19.7 | 252 | 131,074 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Worker | 0.07 | 0.06 | 0.07 | 0.91 | 0.00 | 0.00 | 0.25 | 0.25 | 0.00 | 0.06 | 0.06 | — | 242 | 242 | < 0.005 | 0.01 | 0.38 | 245 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 2.93 | 0.44 | 37.6 | 15.9 | 0.20 | 0.39 | 7.86 | 8.25 | 0.39 | 2.21 | 2.59 | — | 30,070 | 30,070 | 2.28 | 4.76 | 26.3 | 31,571 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.17 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 40.1 | 40.1 | < 0.005 | < 0.005 | 0.06 | 40.6 |
| 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 | 0.53 | 0.08 | 6.86 | 2.91 | 0.04 | 0.07 | 1.43 | 1.51 | 0.07 | 0.40 | 0.47 | — | 4,978 | 4,978 | 0.38 | 0.79 | 4.35 | 5,227 |

3.7. Building Construction (2026) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.68 | 6.43 | 59.1 | 77.8 | 0.14 | 2.27 | — | 2.27 | 2.09 | — | 2.09 | — | 14,383 | 14,383 | 0.58 | 0.12 | — | 14,433 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.38 | 1.16 | 10.6 | 14.0 | 0.03 | 0.41 | — | 0.41 | 0.38 | — | 0.38 | — | 2,590 | 2,590 | 0.11 | 0.02 | — | 2,598 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.25 | 0.21 | 1.94 | 2.56 | < 0.005 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 429 | 429 | 0.02 | < 0.005 | — | 430 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.5 | 13.2 | 13.7 | 178 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 48,499 | 48,499 | 0.69 | 1.85 | 4.59 | 49,074 | |
| Vendor | 2.41 | 0.62 | 33.2 | 16.3 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 31,330 | 31,330 | 1.56 | 4.42 | 2.10 | 32,688 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.42 | 2.36 | 2.46 | 33.3 | 0.00 | 0.00 | 9.09 | 9.09 | 0.00 | 2.13 | 2.13 | — | 8,851 | 8,851 | 0.12 | 0.33 | 13.8 | 8,968 | |
| Vendor | 0.44 | 0.12 | 6.01 | 2.90 | 0.04 | 0.04 | 1.52 | 1.56 | 0.04 | 0.42 | 0.46 | — | 5,639 | 5,639 | 0.28 | 0.80 | 6.30 | 5,889 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.45 | 6.08 | 0.00 | 0.00 | 1.66 | 1.66 | 0.00 | 0.39 | 0.39 | — | 1,465 | 1,465 | 0.02 | 0.06 | 2.28 | 1,485 | |
| Vendor | 0.08 | 0.02 | 1.10 | 0.53 | 0.01 | 0.01 | 0.28 | 0.29 | 0.01 | 0.08 | 0.08 | — | 934 | 934 | 0.05 | 0.13 | 1.04 | 975 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2026) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.18 | 1.05 | 8.80 | 31.7 | 0.05 | 0.28 | — | 0.28 | 0.26 | — | 0.26 | — | 5,210 | 5,210 | 0.21 | 0.04 | — | 5,228 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.21 | 0.19 | 1.58 | 5.71 | 0.01 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 938 | 938 | 0.04 | 0.01 | — | 941 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.29 | 1.04 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 155 | 155 | 0.01 | < 0.005 | — | 156 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.5 | 13.2 | 13.7 | 178 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 48,499 | 48,499 | 0.69 | 1.85 | 4.59 | 49,074 |
| Vendor | 2.41 | 0.62 | 33.2 | 16.3 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 31,330 | 31,330 | 1.56 | 4.42 | 2.10 | 32,688 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.42 | 2.36 | 2.46 | 33.3 | 0.00 | 0.00 | 9.09 | 9.09 | 0.00 | 2.13 | 2.13 | — | 8,851 | 8,851 | 0.12 | 0.33 | 13.8 | 8,968 |
| Vendor | 0.44 | 0.12 | 6.01 | 2.90 | 0.04 | 0.04 | 1.52 | 1.56 | 0.04 | 0.42 | 0.46 | — | 5,639 | 5,639 | 0.28 | 0.80 | 6.30 | 5,889 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.45 | 6.08 | 0.00 | 0.00 | 1.66 | 1.66 | 0.00 | 0.39 | 0.39 | — | 1,465 | 1,465 | 0.02 | 0.06 | 2.28 | 1,485 |
| Vendor | 0.08 | 0.02 | 1.10 | 0.53 | 0.01 | 0.01 | 0.28 | 0.29 | 0.01 | 0.08 | 0.08 | — | 934 | 934 | 0.05 | 0.13 | 1.04 | 975 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2027) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.38 | 6.18 | 56.3 | 77.6 | 0.14 | 2.02 | — | 2.02 | 1.86 | — | 1.86 | — | 14,382 | 14,382 | 0.58 | 0.12 | — | 14,432 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.38 | 6.18 | 56.3 | 77.6 | 0.14 | 2.02 | — | 2.02 | 1.86 | — | 1.86 | — | 14,382 | 14,382 | 0.58 | 0.12 | — | 14,432 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 5.27 | 4.41 | 40.2 | 55.4 | 0.10 | 1.44 | — | 1.44 | 1.33 | — | 1.33 | — | 10,273 | 10,273 | 0.42 | 0.08 | — | 10,308 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.96 | 0.81 | 7.35 | 10.1 | 0.02 | 0.26 | — | 0.26 | 0.24 | — | 0.24 | — | 1,701 | 1,701 | 0.07 | 0.01 | — | 1,707 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.0 | 11.2 | 11.7 | 194 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 50,103 | 50,103 | 0.52 | 1.85 | 159 | 50,827 | |
| Vendor | 2.43 | 0.64 | 30.6 | 15.2 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,735 | 30,735 | 1.56 | 4.20 | 73.5 | 32,098 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.0 | 11.1 | 12.0 | 166 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 47,684 | 47,684 | 0.60 | 1.85 | 4.13 | 48,256 | |
| Vendor | 2.41 | 0.62 | 31.9 | 15.6 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,752 | 30,752 | 1.54 | 4.20 | 1.90 | 32,042 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.24 | 7.92 | 9.64 | 124 | 0.00 | 0.00 | 36.1 | 36.1 | 0.00 | 8.45 | 8.45 | — | 34,525 | 34,525 | 0.43 | 1.32 | 49.1 | 34,980 | |
| Vendor | 1.74 | 0.46 | 23.0 | 11.0 | 0.16 | 0.16 | 6.04 | 6.20 | 0.16 | 1.67 | 1.83 | — | 21,959 | 21,959 | 1.10 | 3.00 | 22.6 | 22,902 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.69 | 1.45 | 1.76 | 22.6 | 0.00 | 0.00 | 6.58 | 6.58 | 0.00 | 1.54 | 1.54 | — | 5,716 | 5,716 | 0.07 | 0.22 | 8.12 | 5,791 | |
| Vendor | 0.32 | 0.08 | 4.19 | 2.00 | 0.03 | 0.03 | 1.10 | 1.13 | 0.03 | 0.30 | 0.33 | — | 3,636 | 3,636 | 0.18 | 0.50 | 3.75 | 3,792 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2027) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 1.05 | 8.78 | 31.7 | 0.05 | 0.27 | — | 0.27 | 0.26 | — | 0.26 | — | 5,210 | 5,210 | 0.21 | 0.04 | — | 5,227 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 1.05 | 8.78 | 31.7 | 0.05 | 0.27 | — | 0.27 | 0.26 | — | 0.26 | — | 5,210 | 5,210 | 0.21 | 0.04 | — | 5,227 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.84 | 0.75 | 6.27 | 22.7 | 0.04 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 3,721 | 3,721 | 0.15 | 0.03 | — | 3,734 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.15 | 0.14 | 1.14 | 4.14 | 0.01 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 616 | 616 | 0.02 | < 0.005 | — | 618 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.0 | 11.2 | 11.7 | 194 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 50,103 | 50,103 | 0.52 | 1.85 | 159 | 50,827 |
| Vendor | 2.43 | 0.64 | 30.6 | 15.2 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,735 | 30,735 | 1.56 | 4.20 | 73.5 | 32,098 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.0 | 11.1 | 12.0 | 166 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 47,684 | 47,684 | 0.60 | 1.85 | 4.13 | 48,256 |
| Vendor | 2.41 | 0.62 | 31.9 | 15.6 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,752 | 30,752 | 1.54 | 4.20 | 1.90 | 32,042 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.24 | 7.92 | 9.64 | 124 | 0.00 | 0.00 | 36.1 | 36.1 | 0.00 | 8.45 | 8.45 | — | 34,525 | 34,525 | 0.43 | 1.32 | 49.1 | 34,980 |
| Vendor | 1.74 | 0.46 | 23.0 | 11.0 | 0.16 | 0.16 | 6.04 | 6.20 | 0.16 | 1.67 | 1.83 | — | 21,959 | 21,959 | 1.10 | 3.00 | 22.6 | 22,902 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.69 | 1.45 | 1.76 | 22.6 | 0.00 | 0.00 | 6.58 | 6.58 | 0.00 | 1.54 | 1.54 | — | 5,716 | 5,716 | 0.07 | 0.22 | 8.12 | 5,791 |
| Vendor | 0.32 | 0.08 | 4.19 | 2.00 | 0.03 | 0.03 | 1.10 | 1.13 | 0.03 | 0.30 | 0.33 | — | 3,636 | 3,636 | 0.18 | 0.50 | 3.75 | 3,792 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.11. Building Construction (2028) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 7.11 | 5.95 | 53.5 | 77.6 | 0.14 | 1.80 | — | 1.80 | 1.66 | — | 1.66 | — | 14,385 | 14,385 | 0.58 | 0.12 | — | 14,434 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Off-Road Equipment | 7.11 | 5.95 | 53.5 | 77.6 | 0.14 | 1.80 | — | 1.80 | 1.66 | — | 1.66 | — | 14,385 | 14,385 | 0.58 | 0.12 | — | 14,434 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 5.09 | 4.26 | 38.4 | 55.6 | 0.10 | 1.29 | — | 1.29 | 1.19 | — | 1.19 | — | 10,303 | 10,303 | 0.42 | 0.08 | — | 10,338 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.93 | 0.78 | 7.00 | 10.1 | 0.02 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 1,706 | 1,706 | 0.07 | 0.01 | — | 1,712 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.7 | 10.8 | 10.1 | 183 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 49,209 | 49,209 | 0.52 | 0.26 | 142 | 49,441 |
| Vendor | 2.21 | 0.62 | 29.4 | 14.7 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,023 | 30,023 | 1.52 | 4.20 | 66.1 | 31,377 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.6 | 10.7 | 11.8 | 157 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 46,836 | 46,836 | 0.60 | 1.85 | 3.67 | 47,407 |
| Vendor | 2.16 | 0.62 | 30.7 | 15.1 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,040 | 30,040 | 1.54 | 4.20 | 1.72 | 31,330 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.08 | 7.76 | 8.47 | 117 | 0.00 | 0.00 | 36.2 | 36.2 | 0.00 | 8.47 | 8.47 | — | 34,004 | 34,004 | 0.43 | 1.33 | 44.0 | 34,455 |
| Vendor | 1.56 | 0.46 | 22.0 | 10.7 | 0.16 | 0.16 | 6.05 | 6.21 | 0.16 | 1.67 | 1.83 | — | 21,509 | 21,509 | 1.10 | 3.00 | 20.5 | 22,452 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.66 | 1.42 | 1.55 | 21.4 | 0.00 | 0.00 | 6.60 | 6.60 | 0.00 | 1.55 | 1.55 | — | 5,630 | 5,630 | 0.07 | 0.22 | 7.28 | 5,704 | |
| Vendor | 0.29 | 0.08 | 4.01 | 1.94 | 0.03 | 0.03 | 1.10 | 1.13 | 0.03 | 0.31 | 0.33 | — | 3,561 | 3,561 | 0.18 | 0.50 | 3.39 | 3,717 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

3.12. Building Construction (2028) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 1.05 | 8.76 | 31.7 | 0.05 | 0.27 | — | 0.27 | 0.26 | — | 0.26 | — | 5,210 | 5,210 | 0.21 | 0.04 | — | 5,228 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 1.05 | 8.76 | 31.7 | 0.05 | 0.27 | — | 0.27 | 0.26 | — | 0.26 | — | 5,210 | 5,210 | 0.21 | 0.04 | — | 5,228 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.84 | 0.75 | 6.28 | 22.7 | 0.04 | 0.19 | — | 0.19 | 0.18 | — | 0.18 | — | 3,732 | 3,732 | 0.15 | 0.03 | — | 3,745 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Off-Road Equipment | 0.15 | 0.14 | 1.15 | 4.15 | 0.01 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 618 | 618 | 0.03 | 0.01 | — | 620 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.7 | 10.8 | 10.1 | 183 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 49,209 | 49,209 | 0.52 | 0.26 | 142 | 49,441 |
| Vendor | 2.21 | 0.62 | 29.4 | 14.7 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,023 | 30,023 | 1.52 | 4.20 | 66.1 | 31,377 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.6 | 10.7 | 11.8 | 157 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 46,836 | 46,836 | 0.60 | 1.85 | 3.67 | 47,407 |
| Vendor | 2.16 | 0.62 | 30.7 | 15.1 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 30,040 | 30,040 | 1.54 | 4.20 | 1.72 | 31,330 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.08 | 7.76 | 8.47 | 117 | 0.00 | 0.00 | 36.2 | 36.2 | 0.00 | 8.47 | 8.47 | — | 34,004 | 34,004 | 0.43 | 1.33 | 44.0 | 34,455 |
| Vendor | 1.56 | 0.46 | 22.0 | 10.7 | 0.16 | 0.16 | 6.05 | 6.21 | 0.16 | 1.67 | 1.83 | — | 21,509 | 21,509 | 1.10 | 3.00 | 20.5 | 22,452 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.66 | 1.42 | 1.55 | 21.4 | 0.00 | 0.00 | 6.60 | 6.60 | 0.00 | 1.55 | 1.55 | — | 5,630 | 5,630 | 0.07 | 0.22 | 7.28 | 5,704 |
| Vendor | 0.29 | 0.08 | 4.01 | 1.94 | 0.03 | 0.03 | 1.10 | 1.13 | 0.03 | 0.31 | 0.33 | — | 3,561 | 3,561 | 0.18 | 0.50 | 3.39 | 3,717 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.13. Building Construction (2029) - Unmitigated

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

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

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|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.92 | 5.79 | 51.5 | 77.4 | 0.14 | 1.65 | — | 1.65 | 1.52 | — | 1.52 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.42 | 0.35 | 3.12 | 4.70 | 0.01 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 872 | 872 | 0.04 | 0.01 | — | 875 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.06 | 0.57 | 0.86 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 144 | 144 | 0.01 | < 0.005 | — | 145 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.2 | 10.3 | 10.1 | 147 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 46,048 | 46,048 | 0.52 | 1.85 | 3.26 | 46,617 |
| Vendor | 2.16 | 0.60 | 29.4 | 14.5 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 29,244 | 29,244 | 1.52 | 4.20 | 1.53 | 30,534 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.73 | 0.62 | 0.62 | 9.37 | 0.00 | 0.00 | 3.06 | 3.06 | 0.00 | 0.72 | 0.72 | — | 2,832 | 2,832 | 0.03 | 0.11 | 3.31 | 2,869 |
| Vendor | 0.13 | 0.04 | 1.78 | 0.87 | 0.01 | 0.01 | 0.51 | 0.53 | 0.01 | 0.14 | 0.16 | — | 1,774 | 1,774 | 0.09 | 0.25 | 1.55 | 1,853 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.11 | 0.11 | 1.71 | 0.00 | 0.00 | 0.56 | 0.56 | 0.00 | 0.13 | 0.13 | — | 469 | 469 | 0.01 | 0.02 | 0.55 | 475 |
| Vendor | 0.02 | 0.01 | 0.33 | 0.16 | < 0.005 | < 0.005 | 0.09 | 0.10 | < 0.005 | 0.03 | 0.03 | — | 294 | 294 | 0.02 | 0.04 | 0.26 | 307 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.14. Building Construction (2029) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 1.05 | 8.75 | 31.7 | 0.05 | 0.27 | — | 0.27 | 0.26 | — | 0.26 | — | 5,209 | 5,209 | 0.21 | 0.04 | — | 5,227 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.06 | 0.53 | 1.92 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 316 | 316 | 0.01 | < 0.005 | — | 317 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Off-Road Equipment | 0.01 | 0.01 | 0.10 | 0.35 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 52.3 | 52.3 | < 0.005 | < 0.005 | — | 52.5 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 12.2 | 10.3 | 10.1 | 147 | 0.00 | 0.00 | 51.2 | 51.2 | 0.00 | 12.0 | 12.0 | — | 46,048 | 46,048 | 0.52 | 1.85 | 3.26 | 46,617 |
| Vendor | 2.16 | 0.60 | 29.4 | 14.5 | 0.22 | 0.22 | 8.54 | 8.77 | 0.22 | 2.36 | 2.58 | — | 29,244 | 29,244 | 1.52 | 4.20 | 1.53 | 30,534 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.73 | 0.62 | 0.62 | 9.37 | 0.00 | 0.00 | 3.06 | 3.06 | 0.00 | 0.72 | 0.72 | — | 2,832 | 2,832 | 0.03 | 0.11 | 3.31 | 2,869 |
| Vendor | 0.13 | 0.04 | 1.78 | 0.87 | 0.01 | 0.01 | 0.51 | 0.53 | 0.01 | 0.14 | 0.16 | — | 1,774 | 1,774 | 0.09 | 0.25 | 1.55 | 1,853 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.11 | 0.11 | 1.71 | 0.00 | 0.00 | 0.56 | 0.56 | 0.00 | 0.13 | 0.13 | — | 469 | 469 | 0.01 | 0.02 | 0.55 | 475 |
| Vendor | 0.02 | 0.01 | 0.33 | 0.16 | < 0.005 | < 0.005 | 0.09 | 0.10 | < 0.005 | 0.03 | 0.03 | — | 294 | 294 | 0.02 | 0.04 | 0.26 | 307 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.15. Paving (2029) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.80 | 4.04 | 38.7 | 59.5 | 0.08 | 1.43 | — | 1.43 | 1.32 | — | 1.32 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 0.23 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.80 | 4.04 | 38.7 | 59.5 | 0.08 | 1.43 | — | 1.43 | 1.32 | — | 1.32 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 0.23 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.00 | 1.68 | 16.1 | 24.8 | 0.03 | 0.60 | — | 0.60 | 0.55 | — | 0.55 | — | 3,774 | 3,774 | 0.15 | 0.03 | — | 3,787 |
| Paving | — | 0.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.37 | 0.31 | 2.94 | 4.52 | 0.01 | 0.11 | — | 0.11 | 0.10 | — | 0.10 | — | 625 | 625 | 0.03 | 0.01 | — | 627 |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Worker | 0.19 | 0.16 | 0.15 | 2.63 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 742 | 742 | 0.01 | < 0.005 | 1.94 | 745 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.16 | 0.16 | 2.26 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 706 | 706 | 0.01 | 0.03 | 0.05 | 715 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.07 | 0.06 | 0.99 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.08 | 0.08 | — | 298 | 298 | < 0.005 | 0.01 | 0.35 | 302 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.18 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 49.3 | 49.3 | < 0.005 | < 0.005 | 0.06 | 50.0 |
| 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 |

3.16. Paving (2029) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 |
| Paving | — | 0.23 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|------|---------|------|-------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 | |
| Paving | — | 0.23 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.13 | 0.13 | 1.61 | 8.83 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 1,258 | 1,258 | 0.05 | 0.01 | — | 1,262 | |
| Paving | — | 0.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.02 | 0.02 | 0.29 | 1.61 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 208 | 208 | 0.01 | < 0.005 | — | 209 | |
| 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 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.19 | 0.16 | 0.15 | 2.63 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 742 | 742 | 0.01 | < 0.005 | 1.94 | 745 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

| | | | | | | | | | | | | | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|---------|---------|------|------|
| Worker | 0.19 | 0.16 | 0.16 | 2.26 | 0.00 | 0.00 | 0.78 | 0.78 | 0.00 | 0.18 | 0.18 | — | 706 | 706 | 0.01 | 0.03 | 0.05 | 715 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.07 | 0.06 | 0.99 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.08 | 0.08 | — | 298 | 298 | < 0.005 | 0.01 | 0.35 | 302 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.18 | 0.00 | 0.00 | 0.06 | 0.06 | 0.00 | 0.01 | 0.01 | — | 49.3 | 49.3 | < 0.005 | < 0.005 | 0.06 | 50.0 |
| 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 |

3.17. Architectural Coating (2029) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.61 | 4.76 | 6.67 | 0.01 | 0.08 | — | 0.08 | 0.07 | — | 0.07 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architect ural Coatings | — | 129 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.11 | 0.86 | 1.20 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 144 | 144 | 0.01 | < 0.005 | — | 145 |
| Architectural Coatings | — | 23.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.16 | 0.22 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 23.9 | 23.9 | < 0.005 | < 0.005 | — | 24.0 |
| Architectural Coatings | — | 4.23 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.43 | 2.06 | 2.03 | 29.5 | 0.00 | 0.00 | 10.2 | 10.2 | 0.00 | 2.40 | 2.40 | — | 9,210 | 9,210 | 0.10 | 0.37 | 0.65 | 9,323 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.43 | 0.37 | 0.37 | 5.56 | 0.00 | 0.00 | 1.82 | 1.82 | 0.00 | 0.43 | 0.43 | — | 1,681 | 1,681 | 0.02 | 0.07 | 1.96 | 1,703 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|---------|------|------|------|
| Worker | 0.08 | 0.07 | 0.07 | 1.02 | 0.00 | 0.00 | 0.33 | 0.33 | 0.00 | 0.08 | 0.08 | — | 278 | 278 | < 0.005 | 0.01 | 0.33 | 282 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2029) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architectural Coatings | — | 22.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.23 | 0.35 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 48.1 | 48.1 | < 0.005 | < 0.005 | — | 48.2 |
| Architectural Coatings | — | 3.99 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.96 | 7.96 | < 0.005 | < 0.005 | — | 7.99 |
| Architectural Coatings | — | 0.73 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.43 | 2.06 | 2.03 | 29.5 | 0.00 | 0.00 | 10.2 | 10.2 | 0.00 | 2.40 | 2.40 | — | 9,210 | 9,210 | 0.10 | 0.37 | 0.65 | 9,323 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.43 | 0.37 | 0.37 | 5.56 | 0.00 | 0.00 | 1.82 | 1.82 | 0.00 | 0.43 | 0.43 | — | 1,681 | 1,681 | 0.02 | 0.07 | 1.96 | 1,703 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.08 | 0.07 | 0.07 | 1.02 | 0.00 | 0.00 | 0.33 | 0.33 | 0.00 | 0.08 | 0.08 | — | 278 | 278 | < 0.005 | 0.01 | 0.33 | 282 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.19. Architectural Coating (2030) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.71 | 0.59 | 4.71 | 6.64 | 0.01 | 0.07 | — | 0.07 | 0.06 | — | 0.06 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architectural Coatings | — | 129 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.81 | 1.14 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 138 | 138 | 0.01 | < 0.005 | — | 138 |
| Architectural Coatings | — | 22.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.15 | 0.21 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 22.8 | 22.8 | < 0.005 | < 0.005 | — | 22.9 |
| Architectural Coatings | — | 4.04 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.36 | 1.99 | 2.01 | 27.9 | 0.00 | 0.00 | 10.2 | 10.2 | 0.00 | 2.40 | 2.40 | — | 9,063 | 9,063 | 0.10 | 0.05 | 0.58 | 9,081 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.40 | 0.34 | 0.35 | 5.05 | 0.00 | 0.00 | 1.74 | 1.74 | 0.00 | 0.41 | 0.41 | — | 1,582 | 1,582 | 0.02 | 0.01 | 1.66 | 1,587 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.06 | 0.92 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 262 | 262 | < 0.005 | < 0.005 | 0.27 | 263 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.20. Architectural Coating (2030) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|------|---------|---|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architect ural Coatings | — | 22.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|------------------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|---------|---------|------|-------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.22 | 0.33 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 46.0 | 46.0 | < 0.005 | < 0.005 | — | 46.1 | |
| Architectural Coatings | — | 3.82 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.04 | 0.06 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.61 | 7.61 | < 0.005 | < 0.005 | — | 7.64 | |
| Architectural Coatings | — | 0.70 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 2.36 | 1.99 | 2.01 | 27.9 | 0.00 | 0.00 | 10.2 | 10.2 | 0.00 | 2.40 | 2.40 | — | 9,063 | 9,063 | 0.10 | 0.05 | 0.58 | 9,081 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.40 | 0.34 | 0.35 | 5.05 | 0.00 | 0.00 | 1.74 | 1.74 | 0.00 | 0.41 | 0.41 | — | 1,582 | 1,582 | 0.02 | 0.01 | 1.66 | 1,587 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|------|------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.07 | 0.06 | 0.06 | 0.92 | 0.00 | 0.00 | 0.32 | 0.32 | 0.00 | 0.07 | 0.07 | — | 262 | 262 | < 0.005 | < 0.005 | 0.27 | 263 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 18.1 | 16.6 | 10.8 | 134 | 0.37 | 0.19 | 14.6 | 14.8 | 0.18 | 2.60 | 2.78 | — | 37,572 | 37,572 | 1.60 | 1.42 | 84.1 | 38,120 |
| Retirement Community | 1.43 | 1.31 | 0.86 | 10.6 | 0.03 | 0.02 | 1.16 | 1.17 | 0.01 | 0.21 | 0.22 | — | 2,973 | 2,973 | 0.13 | 0.11 | 6.65 | 3,017 |
| Regional Shopping Center | 23.1 | 21.8 | 10.0 | 112 | 0.25 | 0.15 | 9.68 | 9.83 | 0.14 | 1.72 | 1.85 | — | 25,624 | 25,624 | 1.61 | 1.24 | 55.5 | 26,090 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 5.60 | 5.16 | 3.15 | 38.4 | 0.10 | 0.05 | 4.06 | 4.12 | 0.05 | 0.72 | 0.77 | — | 10,460 | 10,460 | 0.47 | 0.41 | 23.3 | 10,618 | |
| Total | 48.2 | 44.8 | 24.9 | 295 | 0.75 | 0.41 | 29.6 | 30.0 | 0.38 | 5.24 | 5.62 | — | 76,629 | 76,629 | 3.81 | 3.19 | 170 | 77,845 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 18.0 | 16.5 | 11.8 | 125 | 0.35 | 0.19 | 14.6 | 14.8 | 0.18 | 2.60 | 2.78 | — | 36,139 | 36,139 | 1.66 | 1.49 | 2.18 | 36,626 | |
| Retirement Community | 1.43 | 1.30 | 0.93 | 9.91 | 0.03 | 0.02 | 1.16 | 1.17 | 0.01 | 0.21 | 0.22 | — | 2,860 | 2,860 | 0.13 | 0.12 | 0.17 | 2,898 | |
| Regional Shopping Center | 23.0 | 21.7 | 10.9 | 110 | 0.24 | 0.15 | 9.68 | 9.83 | 0.14 | 1.72 | 1.85 | — | 24,686 | 24,686 | 1.71 | 1.30 | 1.44 | 25,118 | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hotel | 5.57 | 5.12 | 3.42 | 36.1 | 0.10 | 0.05 | 4.06 | 4.12 | 0.05 | 0.72 | 0.77 | — | 10,064 | 10,064 | 0.49 | 0.43 | 0.60 | 10,204 | |
| Total | 48.0 | 44.6 | 27.0 | 281 | 0.72 | 0.41 | 29.6 | 30.0 | 0.38 | 5.24 | 5.62 | — | 73,748 | 73,748 | 4.00 | 3.34 | 4.40 | 74,847 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Apartments Mid Rise | 3.26 | 2.98 | 2.16 | 23.4 | 0.07 | 0.04 | 2.67 | 2.71 | 0.03 | 0.47 | 0.51 | — | 6,047 | 6,047 | 0.27 | 0.25 | 6.01 | 6,134 | |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|---------|------|------|---------|------|------|---|--------|--------|------|------|------|--------|
| Retirement Community | 0.26 | 0.24 | 0.17 | 1.85 | 0.01 | < 0.005 | 0.21 | 0.21 | < 0.005 | 0.04 | 0.04 | — | 479 | 479 | 0.02 | 0.02 | 0.48 | 485 |
| Regional Shopping Center | 4.12 | 3.89 | 1.91 | 19.4 | 0.04 | 0.03 | 1.63 | 1.66 | 0.02 | 0.29 | 0.31 | — | 3,837 | 3,837 | 0.27 | 0.21 | 3.67 | 3,909 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 1.01 | 0.93 | 0.63 | 6.73 | 0.02 | 0.01 | 0.74 | 0.75 | 0.01 | 0.13 | 0.14 | — | 1,684 | 1,684 | 0.08 | 0.07 | 1.67 | 1,709 |
| Total | 8.65 | 8.03 | 4.87 | 51.3 | 0.13 | 0.07 | 5.26 | 5.33 | 0.07 | 0.93 | 1.00 | — | 12,046 | 12,046 | 0.65 | 0.54 | 11.8 | 12,236 |

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 | 12.7 | 11.6 | 7.58 | 93.9 | 0.26 | 0.14 | 10.3 | 10.4 | 0.13 | 1.82 | 1.94 | — | 26,300 | 26,300 | 1.12 | 1.00 | 58.8 | 26,684 |
| Retirement Community | 1.00 | 0.92 | 0.60 | 7.43 | 0.02 | 0.01 | 0.81 | 0.82 | 0.01 | 0.14 | 0.15 | — | 2,081 | 2,081 | 0.09 | 0.08 | 4.66 | 2,112 |
| Regional Shopping Center | 22.6 | 21.3 | 9.79 | 109 | 0.25 | 0.14 | 9.46 | 9.60 | 0.13 | 1.68 | 1.81 | — | 25,040 | 25,040 | 1.57 | 1.22 | 54.3 | 25,496 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 5.47 | 5.04 | 3.08 | 37.5 | 0.10 | 0.05 | 3.97 | 4.02 | 0.05 | 0.70 | 0.75 | — | 10,222 | 10,222 | 0.46 | 0.40 | 22.8 | 10,376 |
| Total | 41.7 | 38.9 | 21.0 | 248 | 0.62 | 0.34 | 24.5 | 24.8 | 0.32 | 4.34 | 4.66 | — | 63,643 | 63,643 | 3.24 | 2.69 | 141 | 64,667 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 12.6 | 11.5 | 8.23 | 87.6 | 0.25 | 0.14 | 10.3 | 10.4 | 0.13 | 1.82 | 1.94 | — | 25,297 | 25,297 | 1.16 | 1.04 | 1.53 | 25,638 |
| Retirement Community | 1.00 | 0.91 | 0.65 | 6.94 | 0.02 | 0.01 | 0.81 | 0.82 | 0.01 | 0.14 | 0.15 | — | 2,002 | 2,002 | 0.09 | 0.08 | 0.12 | 2,029 |
| Regional Shopping Center | 22.5 | 21.2 | 10.6 | 107 | 0.24 | 0.14 | 9.46 | 9.60 | 0.13 | 1.68 | 1.81 | — | 24,123 | 24,123 | 1.68 | 1.27 | 1.41 | 24,546 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 5.45 | 5.01 | 3.34 | 35.3 | 0.10 | 0.05 | 3.97 | 4.02 | 0.05 | 0.70 | 0.75 | — | 9,834 | 9,834 | 0.48 | 0.42 | 0.59 | 9,972 |
| Total | 41.5 | 38.6 | 22.8 | 237 | 0.60 | 0.34 | 24.5 | 24.8 | 0.32 | 4.34 | 4.66 | — | 61,257 | 61,257 | 3.41 | 2.82 | 3.64 | 62,185 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|--------|
| Apartments | 2.28 | 2.08 | 1.51 | 16.4 | 0.05 | 0.02 | 1.87 | 1.90 | 0.02 | 0.33 | 0.35 | — | 4,233 | 4,233 | 0.19 | 0.17 | 4.21 | 4,293 |
| Retirement Community | 0.18 | 0.16 | 0.12 | 1.29 | < 0.005 | < 0.005 | 0.15 | 0.15 | < 0.005 | 0.03 | 0.03 | — | 335 | 335 | 0.02 | 0.01 | 0.33 | 340 |
| Regional Shopping Center | 4.03 | 3.80 | 1.87 | 18.9 | 0.04 | 0.02 | 1.60 | 1.62 | 0.02 | 0.28 | 0.31 | — | 3,749 | 3,749 | 0.27 | 0.20 | 3.59 | 3,820 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 0.99 | 0.91 | 0.61 | 6.58 | 0.02 | 0.01 | 0.72 | 0.73 | 0.01 | 0.13 | 0.14 | — | 1,645 | 1,645 | 0.08 | 0.07 | 1.63 | 1,670 |
| Total | 7.48 | 6.96 | 4.11 | 43.2 | 0.11 | 0.06 | 4.34 | 4.40 | 0.06 | 0.77 | 0.83 | — | 9,963 | 9,963 | 0.55 | 0.46 | 9.76 | 10,123 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 7,346 | 7,346 | 0.46 | 0.06 | — | 7,374 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|------|------|---|--------|
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 1,118 | 1,118 | 0.07 | 0.01 | — | 1,122 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 3,579 | 3,579 | 0.22 | 0.03 | — | 3,592 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 7,562 | 7,562 | 0.47 | 0.06 | — | 7,591 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 7,404 | 7,404 | 0.46 | 0.06 | — | 7,432 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 27,009 | 27,009 | 1.68 | 0.20 | — | 27,111 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 7,346 | 7,346 | 0.46 | 0.06 | — | 7,374 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 1,118 | 1,118 | 0.07 | 0.01 | — | 1,122 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 3,579 | 3,579 | 0.22 | 0.03 | — | 3,592 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 7,562 | 7,562 | 0.47 | 0.06 | — | 7,591 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|------|---------|---|--------|
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 7,404 | 7,404 | 0.46 | 0.06 | — | 7,432 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 27,009 | 27,009 | 1.68 | 0.20 | — | 27,111 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 1,216 | 1,216 | 0.08 | 0.01 | — | 1,221 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 185 | 185 | 0.01 | < 0.005 | — | 186 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 592 | 592 | 0.04 | < 0.005 | — | 595 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 1,252 | 1,252 | 0.08 | 0.01 | — | 1,257 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 1,226 | 1,226 | 0.08 | 0.01 | — | 1,230 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 4,472 | 4,472 | 0.28 | 0.03 | — | 4,489 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | 6,874 | 6,874 | 0.43 | 0.05 | — | 6,900 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 1,048 | 1,048 | 0.06 | 0.01 | — | 1,052 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 3,209 | 3,209 | 0.20 | 0.02 | — | 3,221 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 7,619 | 7,619 | 0.47 | 0.06 | — | 7,648 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 6,438 | 6,438 | 0.40 | 0.05 | — | 6,462 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 25,189 | 25,189 | 1.56 | 0.19 | — | 25,284 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 6,820 | 6,820 | 0.42 | 0.05 | — | 6,846 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 1,040 | 1,040 | 0.06 | 0.01 | — | 1,044 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 3,199 | 3,199 | 0.20 | 0.02 | — | 3,211 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 7,562 | 7,562 | 0.47 | 0.06 | — | 7,591 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|--------|------|---------|---|--------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 6,423 | 6,423 | 0.40 | 0.05 | — | 6,448 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 25,044 | 25,044 | 1.55 | 0.19 | — | 25,139 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 1,135 | 1,135 | 0.07 | 0.01 | — | 1,140 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | 173 | 173 | 0.01 | < 0.005 | — | 174 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 531 | 531 | 0.03 | < 0.005 | — | 533 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 1,258 | 1,258 | 0.08 | 0.01 | — | 1,263 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | 1,065 | 1,065 | 0.07 | 0.01 | — | 1,069 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 4,163 | 4,163 | 0.26 | 0.03 | — | 4,178 |

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 | 0.45 | 0.23 | 3.86 | 1.64 | 0.02 | 0.31 | — | 0.31 | 0.31 | — | 0.31 | — | 4,894 | 4,894 | 0.43 | 0.01 | — | 4,908 |
| Retirement Community | 0.10 | 0.05 | 0.82 | 0.35 | 0.01 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,045 | 1,045 | 0.09 | < 0.005 | — | 1,048 |
| Regional Shopping Center | 0.04 | 0.02 | 0.40 | 0.34 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 480 | 480 | 0.04 | < 0.005 | — | 481 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.31 | 0.15 | 2.82 | 2.36 | 0.02 | 0.21 | — | 0.21 | 0.21 | — | 0.21 | — | 3,359 | 3,359 | 0.30 | 0.01 | — | 3,368 |
| Total | 0.90 | 0.45 | 7.90 | 4.69 | 0.05 | 0.62 | — | 0.62 | 0.62 | — | 0.62 | — | 9,778 | 9,778 | 0.87 | 0.02 | — | 9,805 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.45 | 0.23 | 3.86 | 1.64 | 0.02 | 0.31 | — | 0.31 | 0.31 | — | 0.31 | — | 4,894 | 4,894 | 0.43 | 0.01 | — | 4,908 |
| Retirement Community | 0.10 | 0.05 | 0.82 | 0.35 | 0.01 | 0.07 | — | 0.07 | 0.07 | — | 0.07 | — | 1,045 | 1,045 | 0.09 | < 0.005 | — | 1,048 |
| Regional Shopping Center | 0.04 | 0.02 | 0.40 | 0.34 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 480 | 480 | 0.04 | < 0.005 | — | 481 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|---------|------|------|---------|------|---|------|------|---|------|---|-------|-------|------|---------|---|-------|
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.31 | 0.15 | 2.82 | 2.36 | 0.02 | 0.21 | — | 0.21 | 0.21 | — | 0.21 | — | 3,359 | 3,359 | 0.30 | 0.01 | — | 3,368 |
| Total | 0.90 | 0.45 | 7.90 | 4.69 | 0.05 | 0.62 | — | 0.62 | 0.62 | — | 0.62 | — | 9,778 | 9,778 | 0.87 | 0.02 | — | 9,805 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.08 | 0.04 | 0.70 | 0.30 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 810 | 810 | 0.07 | < 0.005 | — | 813 |
| Retirement Community | 0.02 | 0.01 | 0.15 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 173 | 173 | 0.02 | < 0.005 | — | 174 |
| Regional Shopping Center | 0.01 | < 0.005 | 0.07 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 79.4 | 79.4 | 0.01 | < 0.005 | — | 79.6 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.06 | 0.03 | 0.51 | 0.43 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 556 | 556 | 0.05 | < 0.005 | — | 558 |
| Total | 0.16 | 0.08 | 1.44 | 0.86 | 0.01 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | — | 1,619 | 1,619 | 0.14 | < 0.005 | — | 1,623 |

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 | 0.40 | 0.20 | 3.42 | 1.45 | 0.02 | 0.28 | — | 0.28 | 0.28 | — | 0.28 | — | 4,337 | 4,337 | 0.38 | 0.01 | — | 4,349 |
| Retirement Community | 0.09 | 0.04 | 0.73 | 0.31 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 926 | 926 | 0.08 | < 0.005 | — | 929 |
| Regional Shopping Center | 0.04 | 0.02 | 0.40 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 476 | 476 | 0.04 | < 0.005 | — | 477 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.30 | 0.15 | 2.70 | 2.27 | 0.02 | 0.21 | — | 0.21 | 0.21 | — | 0.21 | — | 3,227 | 3,227 | 0.29 | 0.01 | — | 3,236 |
| Total | 0.83 | 0.41 | 7.25 | 4.37 | 0.05 | 0.57 | — | 0.57 | 0.57 | — | 0.57 | — | 8,966 | 8,966 | 0.79 | 0.02 | — | 8,991 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.40 | 0.20 | 3.42 | 1.45 | 0.02 | 0.28 | — | 0.28 | 0.28 | — | 0.28 | — | 4,337 | 4,337 | 0.38 | 0.01 | — | 4,349 |
| Retirement Community | 0.09 | 0.04 | 0.73 | 0.31 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 926 | 926 | 0.08 | < 0.005 | — | 929 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|---------|------|------|---------|------|---|------|------|---|------|---|-------|-------|------|---------|---|-------|
| Regional Shopping Center | 0.04 | 0.02 | 0.40 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 476 | 476 | 0.04 | < 0.005 | — | 477 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.30 | 0.15 | 2.70 | 2.27 | 0.02 | 0.21 | — | 0.21 | 0.21 | — | 0.21 | — | 3,227 | 3,227 | 0.29 | 0.01 | — | 3,236 |
| Total | 0.83 | 0.41 | 7.25 | 4.37 | 0.05 | 0.57 | — | 0.57 | 0.57 | — | 0.57 | — | 8,966 | 8,966 | 0.79 | 0.02 | — | 8,991 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.07 | 0.04 | 0.62 | 0.27 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 718 | 718 | 0.06 | < 0.005 | — | 720 |
| Retirement Community | 0.02 | 0.01 | 0.13 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 153 | 153 | 0.01 | < 0.005 | — | 154 |
| Regional Shopping Center | 0.01 | < 0.005 | 0.07 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 78.7 | 78.7 | 0.01 | < 0.005 | — | 79.0 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Hotel | 0.05 | 0.03 | 0.49 | 0.41 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 534 | 534 | 0.05 | < 0.005 | — | 536 |
| Total | 0.15 | 0.08 | 1.32 | 0.80 | 0.01 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 1,484 | 1,484 | 0.13 | < 0.005 | — | 1,489 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 50.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 4.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 23.8 | 22.2 | 1.57 | 177 | 0.01 | 0.15 | — | 0.15 | 0.20 | — | 0.20 | — | 600 | 600 | 0.03 | 0.01 | — | 602 |
| Total | 23.8 | 77.1 | 1.57 | 177 | 0.01 | 0.15 | — | 0.15 | 0.20 | — | 0.20 | 0.00 | 600 | 600 | 0.03 | 0.01 | — | 602 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 50.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 4.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 54.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|-------------------------|------|------|------|------|---------|------|---|------|------|---|------|------|------|------|---------|---------|---|------|
| Consum Products | — | 9.19 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architect ural Coatings | — | 0.83 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscap e Equipme nt | 2.97 | 2.77 | 0.20 | 22.2 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 68.0 | 68.0 | < 0.005 | < 0.005 | — | 68.3 |
| Total | 2.97 | 12.8 | 0.20 | 22.2 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | 0.00 | 68.0 | 68.0 | < 0.005 | < 0.005 | — | 68.3 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consum er Products | — | 50.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architect ural Coatings | — | 0.76 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 51.1 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consum er Products | — | 50.4 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|---|------|------|---|------|------|------|------|------|------|---|------|
| Architectural Coatings | — | 0.76 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 51.1 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 9.19 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.14 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 9.33 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.4. Water Emissions by Land Use

4.4.2. 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 | — | — | — | — | — | — | — | — | — | — | — | 98.9 | 512 | 611 | 10.2 | 0.24 | — | 938 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 14.4 | 74.5 | 88.8 | 1.48 | 0.04 | — | 136 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 35.5 | 184 | 219 | 3.65 | 0.09 | — | 337 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|-------|---------|---------|---|-------|
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 16.7 | 16.7 | < 0.005 | < 0.005 | — | 16.8 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 62.9 | 75.1 | 1.25 | 0.03 | — | 115 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 98.9 | 512 | 611 | 10.2 | 0.24 | — | 938 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 14.4 | 74.5 | 88.8 | 1.48 | 0.04 | — | 136 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 35.5 | 184 | 219 | 3.65 | 0.09 | — | 337 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 16.7 | 16.7 | < 0.005 | < 0.005 | — | 16.8 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 62.9 | 75.1 | 1.25 | 0.03 | — | 115 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|---------|---------|---|------|
| Apartments | — | — | — | — | — | — | — | — | — | — | — | 16.4 | 84.8 | 101 | 1.68 | 0.04 | — | 155 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 2.38 | 12.3 | 14.7 | 0.24 | 0.01 | — | 22.6 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 5.87 | 30.4 | 36.3 | 0.60 | 0.01 | — | 55.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 2.77 | 2.77 | < 0.005 | < 0.005 | — | 2.78 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 10.4 | 12.4 | 0.21 | < 0.005 | — | 19.1 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 26.6 | 141 | 167 | 2.74 | 0.07 | — | 255 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 98.9 | 512 | 611 | 10.2 | 0.24 | — | 938 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 14.4 | 74.5 | 88.8 | 1.48 | 0.04 | — | 136 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|-------|---------|---------|---|-------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 35.5 | 184 | 219 | 3.65 | 0.09 | — | 337 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 16.7 | 16.7 | < 0.005 | < 0.005 | — | 16.8 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 62.9 | 75.1 | 1.25 | 0.03 | — | 115 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 98.9 | 512 | 611 | 10.2 | 0.24 | — | 938 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 14.4 | 74.5 | 88.8 | 1.48 | 0.04 | — | 136 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 35.5 | 184 | 219 | 3.65 | 0.09 | — | 337 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 16.7 | 16.7 | < 0.005 | < 0.005 | — | 16.8 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 62.9 | 75.1 | 1.25 | 0.03 | — | 115 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|------|------|-------|---------|---------|---|-------|
| Total | — | — | — | — | — | — | — | — | — | — | — | 161 | 850 | 1,011 | 16.6 | 0.40 | — | 1,543 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 16.4 | 84.8 | 101 | 1.68 | 0.04 | — | 155 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 2.38 | 12.3 | 14.7 | 0.24 | 0.01 | — | 22.6 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 5.87 | 30.4 | 36.3 | 0.60 | 0.01 | — | 55.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 2.77 | 2.77 | < 0.005 | < 0.005 | — | 2.78 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 10.4 | 12.4 | 0.21 | < 0.005 | — | 19.1 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 26.6 | 141 | 167 | 2.74 | 0.07 | — | 255 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|------|-------|------|------|---|-------|
| Apartments | — | — | — | — | — | — | — | — | — | — | — | 548 | 0.00 | 548 | 54.8 | 0.00 | — | 1,917 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 293 | 0.00 | 293 | 29.3 | 0.00 | — | 1,026 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 141 | 0.00 | 141 | 14.1 | 0.00 | — | 495 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.08 | 0.00 | 0.08 | 0.01 | 0.00 | — | 0.28 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 73.8 | 0.00 | 73.8 | 7.37 | 0.00 | — | 258 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 548 | 0.00 | 548 | 54.8 | 0.00 | — | 1,917 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 293 | 0.00 | 293 | 29.3 | 0.00 | — | 1,026 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 141 | 0.00 | 141 | 14.1 | 0.00 | — | 495 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|------|-------|---------|------|---|-------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.08 | 0.00 | 0.08 | 0.01 | 0.00 | — | 0.28 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 73.8 | 0.00 | 73.8 | 7.37 | 0.00 | — | 258 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 90.7 | 0.00 | 90.7 | 9.07 | 0.00 | — | 317 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 48.6 | 0.00 | 48.6 | 4.85 | 0.00 | — | 170 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 23.4 | 0.00 | 23.4 | 2.34 | 0.00 | — | 81.9 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.00 | 0.01 | < 0.005 | 0.00 | — | 0.05 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 0.00 | 12.2 | 1.22 | 0.00 | — | 42.7 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 175 | 0.00 | 175 | 17.5 | 0.00 | — | 612 |

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

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|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|------|-------|------|------|---|-------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 548 | 0.00 | 548 | 54.8 | 0.00 | — | 1,917 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 293 | 0.00 | 293 | 29.3 | 0.00 | — | 1,026 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 141 | 0.00 | 141 | 14.1 | 0.00 | — | 495 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.08 | 0.00 | 0.08 | 0.01 | 0.00 | — | 0.28 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 73.8 | 0.00 | 73.8 | 7.37 | 0.00 | — | 258 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 548 | 0.00 | 548 | 54.8 | 0.00 | — | 1,917 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 293 | 0.00 | 293 | 29.3 | 0.00 | — | 1,026 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 141 | 0.00 | 141 | 14.1 | 0.00 | — | 495 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|-------|------|-------|---------|------|---|-------|
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.08 | 0.00 | 0.08 | 0.01 | 0.00 | — | 0.28 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 73.8 | 0.00 | 73.8 | 7.37 | 0.00 | — | 258 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 1,057 | 0.00 | 1,057 | 106 | 0.00 | — | 3,697 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 90.7 | 0.00 | 90.7 | 9.07 | 0.00 | — | 317 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | 48.6 | 0.00 | 48.6 | 4.85 | 0.00 | — | 170 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 23.4 | 0.00 | 23.4 | 2.34 | 0.00 | — | 81.9 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.01 | 0.00 | 0.01 | < 0.005 | 0.00 | — | 0.05 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | 12.2 | 0.00 | 12.2 | 1.22 | 0.00 | — | 42.7 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 175 | 0.00 | 175 | 17.5 | 0.00 | — | 612 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.8 | 10.8 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 2.86 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.20 | 1.20 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 567 | 567 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.8 | 10.8 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 2.86 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.20 | 1.20 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |

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| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 567 | 567 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.79 | 1.79 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47 | 0.47 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.20 | 0.20 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 93.9 | 93.9 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 96.4 | 96.4 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.8 | 10.8 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 2.86 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.20 | 1.20 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 567 | 567 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 10.8 | 10.8 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.86 | 2.86 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.20 | 1.20 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 567 | 567 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 582 | 582 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.79 | 1.79 |
| Retirement Community | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.47 | 0.47 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.20 | 0.20 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Hotel | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 93.9 | 93.9 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 96.4 | 96.4 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Demolition | Demolition | 1/1/2026 | 2/28/2026 | 5.00 | 42.0 | — |
| Site Preparation | Site Preparation | 3/1/2026 | 5/31/2026 | 5.00 | 65.0 | — |
| Grading | Grading | 6/1/2026 | 9/30/2026 | 5.00 | 88.0 | — |
| Building Construction | Building Construction | 10/1/2026 | 1/31/2029 | 5.00 | 610 | — |
| Paving | Paving | 2/1/2029 | 8/31/2029 | 5.00 | 152 | — |
| Architectural Coating | Architectural Coating | 10/1/2029 | 3/29/2030 | 5.00 | 130 | — |

5.2. Off-Road Equipment

5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |

| | | | | | | | |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Building Construction | Tractors/Loaders/Backh | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|---------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Tier 4 Final | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Tier 4 Final | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |

| | | | | | | | |
|-----------------------|---------------------------|--------|--------------|------|------|------|------|
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Tier 4 Final | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Tier 4 Final | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 281 | 20.0 | HHDT |

| | | | | |
|-----------------------|--------------|-------|------|---------------|
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 281 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 910 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 910 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 1,957 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 499 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|-----------------------|--------------|-------|------|---------------|
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,957 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 499 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 391 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 391 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 281 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 281 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 910 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 910 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |

| | | | | |
|-----------------------|--------------|-------|------|---------------|
| Building Construction | Worker | 1,957 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 499 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,957 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 499 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 391 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 391 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|--|--|--|--|-----------------------------|
| Architectural Coating | 3,519,600 | 1,173,200 | 933,339 | 308,038 | 18,687 |

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------------|---------------------|
| Demolition | 0.00 | 0.00 | 0.00 | 47,193 | — |
| Site Preparation | — | — | 195 | 0.00 | — |
| Grading | — | 640,550 | 528 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 13.6 |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area | 3 | 74% | 74% |
| Water Demolished Area | 2 | 36% | 36% |

5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|----------|--------------------|-----------|
|----------|--------------------|-----------|

| | | |
|--------------------------------|------|------|
| Apartments Mid Rise | — | 0% |
| Retirement Community | — | 0% |
| Regional Shopping Center | 0.00 | 0% |
| Enclosed Parking with Elevator | 7.06 | 100% |
| Other Asphalt Surfaces | 6.50 | 100% |
| City Park | 0.00 | 0% |
| Hotel | 0.00 | 0% |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|------|--------------|-----|------|---------|
| 2026 | 0.00 | 346 | 0.03 | < 0.005 |
| 2027 | 0.00 | 346 | 0.03 | < 0.005 |
| 2027 | 0.00 | 346 | 0.03 | < 0.005 |
| 2027 | 0.00 | 346 | 0.03 | < 0.005 |
| 2028 | 0.00 | 346 | 0.03 | < 0.005 |
| 2029 | 0.00 | 346 | 0.03 | < 0.005 |
| 2030 | 0.00 | 261 | 0.03 | < 0.005 |
| 2028 | 0.00 | 346 | 0.03 | < 0.005 |
| 2029 | 0.00 | 346 | 0.03 | < 0.005 |
| 2030 | 0.00 | 261 | 0.03 | < 0.005 |
| 2028 | 0.00 | 346 | 0.03 | < 0.005 |
| 2029 | 0.00 | 346 | 0.03 | < 0.005 |
| 2030 | 0.00 | 261 | 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 | 6,243 | 6,243 | 6,243 | 2,278,513 | 52,897 | 52,897 | 52,897 | 19,307,433 |
| Retirement Community | 494 | 494 | 494 | 180,310 | 4,186 | 4,186 | 4,186 | 1,527,893 |
| Regional Shopping Center | 9,252 | 9,252 | 9,252 | 3,377,162 | 31,276 | 34,952 | 34,952 | 11,799,205 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 1,998 | 1,998 | 1,998 | 729,088 | 14,669 | 14,669 | 14,669 | 5,354,170 |

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 | 4,370 | 4,370 | 4,370 | 1,594,959 | 37,028 | 37,028 | 37,028 | 13,515,203 |
| Retirement Community | 346 | 346 | 346 | 126,217 | 2,930 | 2,930 | 2,930 | 1,069,525 |
| Regional Shopping Center | 9,042 | 9,042 | 9,042 | 3,300,199 | 30,564 | 34,156 | 34,156 | 11,530,308 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hotel | 1,952 | 1,952 | 1,952 | 712,472 | 14,335 | 14,335 | 14,335 | 5,232,151 |

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 | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 138 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 0 |
| Non-Catalytic Wood Stoves | 0 |
| Pellet Wood Stoves | 0 |
| Retirement Community | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 20 |
| 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 | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 138 |
| Conventional Wood Stoves | 0 |
| Catalytic Wood Stoves | 0 |
| Non-Catalytic Wood Stoves | 0 |
| Pellet Wood Stoves | 0 |
| Retirement Community | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 20 |
| 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) |
|--|--|--|--|-----------------------------|
| 3519599 | 1,173,199 | 933,339 | 308,038 | 1,867 |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

5.10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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 | 5,040,522 | 532 | 0.0330 | 0.0040 | 15,271,909 |
| Retirement Community | 767,009 | 532 | 0.0330 | 0.0040 | 3,261,135 |
| Regional Shopping Center | 2,455,342 | 532 | 0.0330 | 0.0040 | 1,496,736 |
| Enclosed Parking with Elevator | 5,188,307 | 532 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 532 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 532 | 0.0330 | 0.0040 | 0.00 |
| Hotel | 5,079,714 | 532 | 0.0330 | 0.0040 | 10,480,427 |

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 | 4,679,103 | 532 | 0.0330 | 0.0040 | 13,532,992 |
| Retirement Community | 713,427 | 532 | 0.0330 | 0.0040 | 2,889,637 |

| | | | | | |
|--------------------------------|-----------|-----|--------|--------|------------|
| Regional Shopping Center | 2,194,869 | 532 | 0.0330 | 0.0040 | 1,483,999 |
| Enclosed Parking with Elevator | 5,188,307 | 532 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 532 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 532 | 0.0330 | 0.0040 | 0.00 |
| Hotel | 4,407,030 | 532 | 0.0330 | 0.0040 | 10,070,535 |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise | 51,597,769 | 0.00 |
| Retirement Community | 7,505,130 | 0.00 |
| Regional Shopping Center | 18,518,130 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.00 | 2,160,062 |
| Hotel | 6,341,693 | 0.00 |

5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise | 51,597,769 | 0.00 |
| Retirement Community | 7,505,130 | 0.00 |
| Regional Shopping Center | 18,518,130 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.00 | 2,160,062 |
| Hotel | 6,341,693 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Apartments Mid Rise | 1016.89 | 0.00 |
| Retirement Community | 544.22 | 0.00 |
| Regional Shopping Center | 262.50 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.15 | 0.00 |
| Hotel | 136.88 | 0.00 |

5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Apartments Mid Rise | 1016.89 | 0.00 |
| Retirement Community | 544.22 | 0.00 |
| Regional Shopping Center | 262.50 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.15 | 0.00 |
| Hotel | 136.88 | 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 |
| Retirement Community | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Retirement Community | Household refrigerators and/or freezers | R-134a | 1,430 | 0.22 | 0.60 | 0.00 | 1.00 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| Hotel | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Hotel | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Hotel | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

5.14.2. Mitigated

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

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| Retirement Community | Average room A/C & Other residential A/C and heat pumps | R-410A | 2,088 | < 0.005 | 2.50 | 2.50 | 10.0 |
| Retirement Community | Household refrigerators and/or freezers | R-134a | 1,430 | 0.22 | 0.60 | 0.00 | 1.00 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| Hotel | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Hotel | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Hotel | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |

| | |
|---------------------------------|------|
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |
| Unemployment | 3.58 |

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |

| | |
|--|-------------|
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |

| | |
|---------------------------------------|------|
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|--------------------------------------|---|
| Land Use | Adjusted per project specific details. Landscape area included in City Park, rec area included in overall square footage. |
| Construction: Construction Phases | anticipated construction schedule |
| Construction: Paving | other asphalt surfaces increased to capture all potential paved areas |
| Operations: Vehicle Data | Trip rates per Traffic Study |
| Operations: Hearths | No wood burning per SCAQMD Rule 445 |
| Operations: Water and Waste Water | Outdoor area/water usage combined in City Park use |
| Construction: Architectural Coatings | Added coatings phase |

Bristol Phase 2 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 | Bristol Phase 2 |
| Construction Start Date | 4/1/2030 |
| Operational Year | 2033 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.698591238074684, -117.88632929922632 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 | 856 | Dwelling Unit | 3.81 | 941,600 | 0.00 | — | 2,551 | — |
| Regional Shopping Center | 65.0 | 1000sqft | 0.26 | 65,000 | 0.00 | — | — | — |
| Enclosed Parking with Elevator | 656 | 1000sqft | 2.66 | 656,000 | 0.00 | — | — | — |
| Other Asphalt Surfaces | 115 | 1000sqft | 0.46 | 0.00 | 0.00 | — | — | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|----------------|---------|--|
| Construction | C-2* | Limit Heavy-Duty Diesel Vehicle Idling |
| Construction | C-5 | Use Advanced Engine Tiers |
| Construction | C-13 | Use Low-VOC Paints for Construction |
| Transportation | T-1 | Increase Residential Density |
| Transportation | T-5 | Implement Commute Trip Reduction Program (Voluntary) |
| Transportation | T-11* | Provide Employer-Sponsored Vanpool |
| Transportation | T-14* | Provide Electric Vehicle Charging Infrastructure |
| Transportation | T-31-A* | Locate Project in Area with High Destination Accessibility |
| Energy | E-1 | Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards |
| Area Sources | LL-1 | Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment |
| Area Sources | AS-2 | Use Low-VOC Paints |

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 20.9 | 128 | 151 | 176 | 0.29 | 6.40 | 16.1 | 17.5 | 5.89 | 5.36 | 11.2 | — | 40,497 | 40,497 | 1.76 | 2.58 | 33.1 | 40,887 |
| Mit. | 5.12 | 27.8 | 25.1 | 99.2 | 0.17 | 0.45 | 16.1 | 16.5 | 0.43 | 5.36 | 5.56 | — | 26,113 | 26,113 | 1.28 | 2.48 | 33.1 | 26,453 |
| % Reduced | 76% | 78% | 83% | 44% | 43% | 93% | — | 6% | 93% | — | 51% | — | 36% | 36% | 27% | 4% | — | 35% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 16.6 | 128 | 131 | 174 | 0.36 | 4.61 | 16.1 | 17.5 | 4.26 | 3.85 | 7.47 | — | 42,752 | 42,752 | 2.13 | 2.66 | 0.86 | 43,598 |
| Mit. | 5.11 | 27.7 | 26.0 | 94.0 | 0.20 | 0.45 | 16.1 | 16.5 | 0.43 | 3.85 | 4.21 | — | 25,574 | 25,574 | 1.41 | 2.51 | 0.86 | 25,883 |
| % Reduced | 69% | 78% | 80% | 46% | 46% | 90% | — | 6% | 90% | — | 44% | — | 40% | 40% | 34% | 5% | — | 41% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 7.92 | 40.8 | 58.2 | 98.2 | 0.16 | 2.13 | 9.02 | 10.5 | 1.96 | 2.16 | 3.55 | — | 23,965 | 23,965 | 0.85 | 1.01 | 9.29 | 24,200 |
| Mit. | 3.23 | 9.54 | 15.7 | 57.0 | 0.08 | 0.28 | 9.02 | 9.30 | 0.27 | 2.16 | 2.43 | — | 16,006 | 16,006 | 0.55 | 0.95 | 9.29 | 16,214 |
| % Reduced | 59% | 77% | 73% | 42% | 47% | 87% | — | 12% | 86% | — | 32% | — | 33% | 33% | 36% | 6% | — | 33% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.45 | 7.45 | 10.6 | 17.9 | 0.03 | 0.39 | 1.65 | 1.92 | 0.36 | 0.39 | 0.65 | — | 3,968 | 3,968 | 0.14 | 0.17 | 1.54 | 4,007 |
| Mit. | 0.59 | 1.74 | 2.86 | 10.4 | 0.02 | 0.05 | 1.65 | 1.70 | 0.05 | 0.39 | 0.44 | — | 2,650 | 2,650 | 0.09 | 0.16 | 1.54 | 2,684 |
| % Reduced | 59% | 77% | 73% | 42% | 47% | 87% | — | 12% | 86% | — | 32% | — | 33% | 33% | 36% | 6% | — | 33% |

2.2. Construction Emissions by Year, Unmitigated

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

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 20.9 | 17.6 | 151 | 172 | 0.29 | 6.40 | 11.5 | 17.1 | 5.89 | 5.36 | 11.2 | — | 33,352 | 33,352 | 1.76 | 2.58 | 24.9 | 34,190 |
| 2031 | 13.8 | 11.8 | 92.9 | 176 | 0.27 | 2.77 | 14.1 | 16.9 | 2.55 | 3.38 | 5.93 | — | 40,497 | 40,497 | 1.32 | 1.09 | 33.1 | 40,887 |
| 2032 | 10.1 | 128 | 58.9 | 127 | 0.20 | 1.44 | 16.1 | 17.5 | 1.33 | 3.85 | 5.18 | — | 33,670 | 33,670 | 1.00 | 0.98 | 32.2 | 34,020 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 16.6 | 13.2 | 131 | 174 | 0.36 | 4.61 | 8.91 | 13.5 | 4.26 | 3.21 | 7.47 | — | 42,752 | 42,752 | 2.13 | 2.66 | 0.67 | 43,598 |
| 2031 | 13.8 | 11.7 | 93.2 | 171 | 0.27 | 2.77 | 14.1 | 16.9 | 2.55 | 3.38 | 5.93 | — | 39,958 | 39,958 | 1.34 | 1.09 | 0.86 | 40,317 |
| 2032 | 10.1 | 128 | 59.6 | 121 | 0.20 | 1.44 | 16.1 | 17.5 | 1.33 | 3.85 | 5.18 | — | 33,053 | 33,053 | 1.00 | 0.98 | 0.84 | 33,372 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 7.53 | 6.02 | 58.2 | 69.0 | 0.15 | 2.13 | 4.63 | 6.76 | 1.96 | 1.51 | 3.47 | — | 17,254 | 17,254 | 0.85 | 1.01 | 4.16 | 17,581 |
| 2031 | 7.92 | 6.75 | 52.1 | 98.2 | 0.16 | 1.51 | 9.02 | 10.5 | 1.39 | 2.16 | 3.55 | — | 23,965 | 23,965 | 0.79 | 0.69 | 9.29 | 24,200 |
| 2032 | 5.70 | 40.8 | 34.1 | 69.5 | 0.12 | 0.85 | 8.80 | 9.64 | 0.78 | 2.11 | 2.89 | — | 18,976 | 18,976 | 0.58 | 0.58 | 7.78 | 19,171 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 1.38 | 1.10 | 10.6 | 12.6 | 0.03 | 0.39 | 0.84 | 1.23 | 0.36 | 0.28 | 0.63 | — | 2,857 | 2,857 | 0.14 | 0.17 | 0.69 | 2,911 |
| 2031 | 1.45 | 1.23 | 9.52 | 17.9 | 0.03 | 0.28 | 1.65 | 1.92 | 0.25 | 0.39 | 0.65 | — | 3,968 | 3,968 | 0.13 | 0.11 | 1.54 | 4,007 |
| 2032 | 1.04 | 7.45 | 6.23 | 12.7 | 0.02 | 0.15 | 1.61 | 1.76 | 0.14 | 0.38 | 0.53 | — | 3,142 | 3,142 | 0.10 | 0.10 | 1.29 | 3,174 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 1.97 | 1.09 | 21.5 | 58.1 | 0.17 | 0.33 | 11.5 | 11.8 | 0.33 | 5.36 | 5.56 | — | 21,516 | 21,516 | 1.28 | 2.48 | 24.9 | 22,313 |

| | | | | | | | | | | | | | | | | | | |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| 2031 | 5.12 | 4.58 | 25.1 | 99.2 | 0.14 | 0.45 | 14.1 | 14.6 | 0.43 | 3.38 | 3.81 | — | 26,113 | 26,113 | 0.74 | 0.97 | 33.1 | 26,453 |
| 2032 | 5.10 | 27.8 | 22.1 | 83.7 | 0.11 | 0.38 | 16.1 | 16.5 | 0.36 | 3.85 | 4.21 | — | 24,794 | 24,794 | 0.64 | 0.91 | 32.2 | 25,114 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 2.36 | 1.34 | 26.0 | 66.8 | 0.20 | 0.38 | 8.91 | 9.30 | 0.38 | 3.21 | 3.59 | — | 24,874 | 24,874 | 1.41 | 2.51 | 0.67 | 25,658 |
| 2031 | 5.11 | 4.55 | 25.4 | 94.0 | 0.14 | 0.45 | 14.1 | 14.6 | 0.43 | 3.38 | 3.81 | — | 25,574 | 25,574 | 0.76 | 0.97 | 0.86 | 25,883 |
| 2032 | 5.09 | 27.7 | 22.8 | 78.1 | 0.11 | 0.38 | 16.1 | 16.5 | 0.36 | 3.85 | 4.21 | — | 24,177 | 24,177 | 0.64 | 0.91 | 0.84 | 24,465 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 0.92 | 0.53 | 10.2 | 25.9 | 0.08 | 0.15 | 4.63 | 4.78 | 0.15 | 1.51 | 1.66 | — | 9,748 | 9,748 | 0.55 | 0.95 | 4.16 | 10,050 |
| 2031 | 3.23 | 2.87 | 15.7 | 57.0 | 0.08 | 0.28 | 9.02 | 9.30 | 0.27 | 2.16 | 2.43 | — | 16,006 | 16,006 | 0.47 | 0.63 | 9.29 | 16,214 |
| 2032 | 2.88 | 9.54 | 13.1 | 45.2 | 0.07 | 0.23 | 8.80 | 9.03 | 0.22 | 2.11 | 2.32 | — | 13,836 | 13,836 | 0.38 | 0.54 | 7.78 | 14,013 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2030 | 0.17 | 0.10 | 1.87 | 4.72 | 0.01 | 0.03 | 0.84 | 0.87 | 0.03 | 0.28 | 0.30 | — | 1,614 | 1,614 | 0.09 | 0.16 | 0.69 | 1,664 |
| 2031 | 0.59 | 0.52 | 2.86 | 10.4 | 0.02 | 0.05 | 1.65 | 1.70 | 0.05 | 0.39 | 0.44 | — | 2,650 | 2,650 | 0.08 | 0.10 | 1.54 | 2,684 |
| 2032 | 0.53 | 1.74 | 2.40 | 8.24 | 0.01 | 0.04 | 1.61 | 1.65 | 0.04 | 0.38 | 0.42 | — | 2,291 | 2,291 | 0.06 | 0.09 | 1.29 | 2,320 |

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. | 26.2 | 47.5 | 11.4 | 185 | 0.30 | 0.40 | 11.6 | 12.0 | 0.41 | 2.06 | 2.46 | 449 | 41,444 | 41,893 | 47.2 | 1.38 | 50.5 | 43,535 |
| Mit. | 12.9 | 33.8 | 8.61 | 81.1 | 0.23 | 0.28 | 8.83 | 9.12 | 0.28 | 1.56 | 1.84 | 449 | 33,934 | 34,383 | 46.9 | 1.12 | 40.0 | 35,929 |
| % Reduced | 51% | 29% | 25% | 56% | 24% | 28% | 24% | 24% | 32% | 24% | 25% | — | 18% | 18% | 1% | 19% | 21% | 17% |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 16.1 | 38.1 | 11.4 | 99.2 | 0.29 | 0.34 | 11.6 | 12.0 | 0.33 | 2.06 | 2.39 | 449 | 40,099 | 40,547 | 47.2 | 1.43 | 8.18 | 42,163 |
| Mit. | 12.9 | 33.7 | 9.16 | 76.9 | 0.22 | 0.28 | 8.83 | 9.12 | 0.28 | 1.56 | 1.84 | 449 | 33,045 | 33,494 | 46.9 | 1.16 | 7.91 | 35,021 |
| % Reduced | 20% | 12% | 20% | 22% | 23% | 16% | 24% | 24% | 16% | 24% | 23% | — | 18% | 17% | 1% | 19% | 3% | 17% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 22.8 | 44.4 | 11.9 | 155 | 0.29 | 0.38 | 11.4 | 11.8 | 0.38 | 2.02 | 2.40 | 449 | 40,132 | 40,581 | 47.2 | 1.42 | 25.5 | 42,210 |
| Mit. | 12.7 | 33.6 | 9.10 | 77.2 | 0.22 | 0.28 | 8.65 | 8.93 | 0.28 | 1.53 | 1.81 | 449 | 32,884 | 33,333 | 46.9 | 1.15 | 21.0 | 34,869 |
| % Reduced | 44% | 24% | 23% | 50% | 24% | 25% | 24% | 24% | 28% | 24% | 25% | — | 18% | 18% | 1% | 19% | 18% | 17% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.16 | 8.10 | 2.16 | 28.3 | 0.05 | 0.07 | 2.09 | 2.16 | 0.07 | 0.37 | 0.44 | 74.3 | 6,644 | 6,719 | 7.82 | 0.24 | 4.22 | 6,988 |
| Mit. | 2.32 | 6.13 | 1.66 | 14.1 | 0.04 | 0.05 | 1.58 | 1.63 | 0.05 | 0.28 | 0.33 | 74.3 | 5,444 | 5,519 | 7.76 | 0.19 | 3.48 | 5,773 |
| % Reduced | 44% | 24% | 23% | 50% | 24% | 25% | 24% | 24% | 28% | 24% | 25% | — | 18% | 18% | 1% | 19% | 18% | 17% |

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 | 15.9 | 14.7 | 8.20 | 104 | 0.28 | 0.14 | 11.6 | 11.8 | 0.13 | 2.06 | 2.18 | — | 28,614 | 28,614 | 1.27 | 1.13 | 43.4 | 29,026 |
| Area | 10.0 | 32.7 | 0.71 | 80.1 | < 0.005 | 0.06 | — | 0.06 | 0.08 | — | 0.08 | 0.00 | 259 | 259 | 0.01 | < 0.005 | — | 260 |
| Energy | 0.29 | 0.15 | 2.51 | 1.11 | 0.02 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 12,205 | 12,205 | 0.84 | 0.07 | — | 12,248 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|------|--------|--------|---------|---------|------|--------|
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 26.2 | 47.5 | 11.4 | 185 | 0.30 | 0.40 | 11.6 | 12.0 | 0.41 | 2.06 | 2.46 | 449 | 41,444 | 41,893 | 47.2 | 1.38 | 50.5 | 43,535 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 15.8 | 14.6 | 8.90 | 98.1 | 0.27 | 0.14 | 11.6 | 11.8 | 0.13 | 2.06 | 2.18 | — | 27,527 | 27,527 | 1.33 | 1.18 | 1.13 | 27,914 |
| Area | 0.00 | 23.3 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.29 | 0.15 | 2.51 | 1.11 | 0.02 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 12,205 | 12,205 | 0.84 | 0.07 | — | 12,248 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 16.1 | 38.1 | 11.4 | 99.2 | 0.29 | 0.34 | 11.6 | 12.0 | 0.33 | 2.06 | 2.39 | 449 | 40,099 | 40,547 | 47.2 | 1.43 | 8.18 | 42,163 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 15.6 | 14.5 | 8.86 | 98.9 | 0.27 | 0.13 | 11.4 | 11.6 | 0.12 | 2.02 | 2.15 | — | 27,383 | 27,383 | 1.31 | 1.17 | 18.4 | 27,784 |
| Area | 6.86 | 29.8 | 0.49 | 54.9 | < 0.005 | 0.04 | — | 0.04 | 0.05 | — | 0.05 | 0.00 | 177 | 177 | 0.01 | < 0.005 | — | 178 |
| Energy | 0.29 | 0.15 | 2.51 | 1.11 | 0.02 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 12,205 | 12,205 | 0.84 | 0.07 | — | 12,248 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 22.8 | 44.4 | 11.9 | 155 | 0.29 | 0.38 | 11.4 | 11.8 | 0.38 | 2.02 | 2.40 | 449 | 40,132 | 40,581 | 47.2 | 1.42 | 25.5 | 42,210 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.85 | 2.64 | 1.62 | 18.0 | 0.05 | 0.02 | 2.09 | 2.11 | 0.02 | 0.37 | 0.39 | — | 4,534 | 4,534 | 0.22 | 0.19 | 3.05 | 4,600 |
| Area | 1.25 | 5.43 | 0.09 | 10.0 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 29.3 | 29.3 | < 0.005 | < 0.005 | — | 29.5 |
| Energy | 0.05 | 0.03 | 0.46 | 0.20 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 2,021 | 2,021 | 0.14 | 0.01 | — | 2,028 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 11.7 | 60.7 | 72.4 | 1.21 | 0.03 | — | 111 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 62.6 | 0.00 | 62.6 | 6.25 | 0.00 | — | 219 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |

| | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|
| Total | 4.16 | 8.10 | 2.16 | 28.3 | 0.05 | 0.07 | 2.09 | 2.16 | 0.07 | 0.37 | 0.44 | 74.3 | 6,644 | 6,719 | 7.82 | 0.24 | 4.22 | 6,988 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|

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 | 12.6 | 11.7 | 6.38 | 80.1 | 0.21 | 0.10 | 8.83 | 8.94 | 0.10 | 1.56 | 1.66 | — | 21,789 | 21,789 | 1.00 | 0.88 | 33.0 | 22,108 |
| Area | 0.00 | 21.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.26 | 0.13 | 2.23 | 0.99 | 0.01 | 0.18 | — | 0.18 | 0.18 | — | 0.18 | — | 11,778 | 11,778 | 0.81 | 0.07 | — | 11,820 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 12.9 | 33.8 | 8.61 | 81.1 | 0.23 | 0.28 | 8.83 | 9.12 | 0.28 | 1.56 | 1.84 | 449 | 33,934 | 34,383 | 46.9 | 1.12 | 40.0 | 35,929 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 12.6 | 11.7 | 6.93 | 75.9 | 0.21 | 0.10 | 8.83 | 8.94 | 0.10 | 1.56 | 1.66 | — | 20,963 | 20,963 | 1.04 | 0.92 | 0.86 | 21,263 |
| Area | 0.00 | 21.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.26 | 0.13 | 2.23 | 0.99 | 0.01 | 0.18 | — | 0.18 | 0.18 | — | 0.18 | — | 11,715 | 11,715 | 0.80 | 0.07 | — | 11,756 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 12.9 | 33.7 | 9.16 | 76.9 | 0.22 | 0.28 | 8.83 | 9.12 | 0.28 | 1.56 | 1.84 | 449 | 33,045 | 33,494 | 46.9 | 1.16 | 7.91 | 35,021 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 12.4 | 11.5 | 6.87 | 76.3 | 0.20 | 0.10 | 8.65 | 8.75 | 0.10 | 1.53 | 1.63 | — | 20,759 | 20,759 | 1.02 | 0.90 | 13.9 | 21,068 |
| Area | 0.00 | 21.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|---------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|
| Energy | 0.26 | 0.13 | 2.23 | 0.99 | 0.01 | 0.18 | — | 0.18 | 0.18 | — | 0.18 | — | 11,758 | 11,758 | 0.80 | 0.07 | — | 11,800 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Total | 12.7 | 33.6 | 9.10 | 77.2 | 0.22 | 0.28 | 8.65 | 8.93 | 0.28 | 1.53 | 1.81 | 449 | 32,884 | 33,333 | 46.9 | 1.15 | 21.0 | 34,869 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.27 | 2.11 | 1.25 | 13.9 | 0.04 | 0.02 | 1.58 | 1.60 | 0.02 | 0.28 | 0.30 | — | 3,437 | 3,437 | 0.17 | 0.15 | 2.31 | 3,488 |
| Area | 0.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.05 | 0.02 | 0.41 | 0.18 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 1,947 | 1,947 | 0.13 | 0.01 | — | 1,954 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 11.7 | 60.7 | 72.4 | 1.21 | 0.03 | — | 111 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 62.6 | 0.00 | 62.6 | 6.25 | 0.00 | — | 219 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | 2.32 | 6.13 | 1.66 | 14.1 | 0.04 | 0.05 | 1.58 | 1.63 | 0.05 | 0.28 | 0.33 | 74.3 | 5,444 | 5,519 | 7.76 | 0.19 | 3.48 | 5,773 |

3. Construction Emissions Details

3.1. Demolition (2030) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 14.9 | 12.5 | 109 | 112 | 0.20 | 4.31 | — | 4.31 | 3.96 | — | 3.96 | — | 20,558 | 20,558 | 0.83 | 0.17 | — | 20,628 |
| Demolition | — | — | — | — | — | — | 8.40 | 8.40 | — | 1.27 | 1.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.84 | 1.54 | 13.4 | 13.8 | 0.02 | 0.53 | — | 0.53 | 0.49 | — | 0.49 | — | 2,535 | 2,535 | 0.10 | 0.02 | — | 2,543 |
| Demolition | — | — | — | — | — | — | 1.04 | 1.04 | — | 0.16 | 0.16 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.34 | 0.28 | 2.45 | 2.52 | < 0.005 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 420 | 420 | 0.02 | < 0.005 | — | 421 |
| Demolition | — | — | — | — | — | — | 0.19 | 0.19 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 1.25 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 365 | 365 | < 0.005 | < 0.005 | 0.85 | 366 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.81 | 0.16 | 10.8 | 4.90 | 0.07 | 0.13 | 2.75 | 2.88 | 0.13 | 0.77 | 0.91 | — | 9,477 | 9,477 | 0.65 | 1.51 | 14.9 | 9,959 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 43.4 | 43.4 | < 0.005 | < 0.005 | 0.05 | 43.5 |
| 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 | 0.10 | 0.02 | 1.39 | 0.61 | 0.01 | 0.02 | 0.34 | 0.35 | 0.02 | 0.09 | 0.11 | — | 1,169 | 1,169 | 0.08 | 0.19 | 0.79 | 1,227 |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.19 | 7.19 | < 0.005 | < 0.005 | 0.01 | 7.21 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.02 | < 0.005 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 193 | 193 | 0.01 | 0.03 | 0.13 | 203 |

3.2. Demolition (2030) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|------|---------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 0.72 | 9.01 | 36.3 | 0.07 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 6,853 | 6,853 | 0.28 | 0.06 | — | 6,876 |
| Demolition | — | — | — | — | — | — | 8.40 | 8.40 | — | 1.27 | 1.27 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.09 | 0.09 | 1.11 | 4.48 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 845 | 845 | 0.03 | 0.01 | — | 848 |
| Demolition | — | — | — | — | — | — | 1.04 | 1.04 | — | 0.16 | 0.16 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.20 | 0.82 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 140 | 140 | 0.01 | < 0.005 | — | 140 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Demolition | — | — | — | — | — | — | 0.19 | 0.19 | — | 0.03 | 0.03 | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.09 | 0.08 | 0.06 | 1.25 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 365 | 365 | < 0.005 | < 0.005 | 0.85 | 366 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.81 | 0.16 | 10.8 | 4.90 | 0.07 | 0.13 | 2.75 | 2.88 | 0.13 | 0.77 | 0.91 | — | 9,477 | 9,477 | 0.65 | 1.51 | 14.9 | 9,959 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.01 | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 43.4 | 43.4 | < 0.005 | < 0.005 | 0.05 | 43.5 |
| 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 | 0.10 | 0.02 | 1.39 | 0.61 | 0.01 | 0.02 | 0.34 | 0.35 | 0.02 | 0.09 | 0.11 | — | 1,169 | 1,169 | 0.08 | 0.19 | 0.79 | 1,227 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.19 | 7.19 | < 0.005 | < 0.005 | 0.01 | 7.21 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.02 | < 0.005 | 0.25 | 0.11 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02 | 0.02 | — | 193 | 193 | 0.01 | 0.03 | 0.13 | 203 |

3.3. Site Preparation (2030) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Off-Road Equipment | 20.8 | 17.5 | 151 | 171 | 0.29 | 6.40 | — | 6.40 | 5.89 | — | 5.89 | — | 31,774 | 31,774 | 1.29 | 0.26 | — | 31,883 |
| Dust From Material Movement: | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.14 | 0.96 | 8.29 | 9.35 | 0.02 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 1,741 | 1,741 | 0.07 | 0.01 | — | 1,747 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.56 | 0.56 | — | 0.29 | 0.29 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.21 | 0.18 | 1.51 | 1.71 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 288 | 288 | 0.01 | < 0.005 | — | 289 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.10 | 0.10 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.11 | 0.09 | 0.07 | 1.45 | 0.00 | 0.00 | 0.46 | 0.46 | 0.00 | 0.11 | 0.11 | — | 426 | 426 | < 0.005 | < 0.005 | 1.00 | 428 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|------|------|------|---------|---------|---------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | < 0.005 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 22.5 | 22.5 | < 0.005 | < 0.005 | 0.02 | 22.6 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.74 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

3.4. Site Preparation (2030) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 1.00 | 5.18 | 56.6 | 0.10 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 10,591 | 10,591 | 0.43 | 0.09 | — | 10,628 |
| Dust From Material Movement | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.05 | 0.05 | 0.28 | 3.10 | 0.01 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 580 | 580 | 0.02 | < 0.005 | — | 582 |
| Dust From Material Movement | — | — | — | — | — | — | 0.56 | 0.56 | — | 0.29 | 0.29 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.05 | 0.57 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 96.1 | 96.1 | < 0.005 | < 0.005 | — | 96.4 |
| Dust From Material Movement | — | — | — | — | — | — | 0.10 | 0.10 | — | 0.05 | 0.05 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.11 | 0.09 | 0.07 | 1.45 | 0.00 | 0.00 | 0.46 | 0.46 | 0.00 | 0.11 | 0.11 | — | 426 | 426 | < 0.005 | < 0.005 | 1.00 | 428 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker | 0.01 | < 0.005 | < 0.005 | 0.07 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 22.5 | 22.5 | < 0.005 | < 0.005 | 0.02 | 22.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 3.73 | 3.73 | < 0.005 | < 0.005 | < 0.005 | 3.74 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5. Grading (2030) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 10.5 | 8.86 | 75.7 | 104 | 0.16 | 3.08 | — | 3.08 | 2.83 | — | 2.83 | — | 17,754 | 17,754 | 0.72 | 0.14 | — | 17,815 |
| Dust From Material Movement: | — | — | — | — | — | — | 3.71 | 3.71 | — | 1.78 | 1.78 | — | — | — | — | — | — | — |
| 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 | 10.5 | 8.86 | 75.7 | 104 | 0.16 | 3.08 | — | 3.08 | 2.83 | — | 2.83 | — | 17,754 | 17,754 | 0.72 | 0.14 | — | 17,815 |
| Dust From Material Movement: | — | — | — | — | — | — | 3.71 | 3.71 | — | 1.78 | 1.78 | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|---------|---------|------|--------|------|
| 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.18 | 2.67 | 22.8 | 31.4 | 0.05 | 0.93 | — | 0.93 | 0.85 | — | 0.85 | — | 5,350 | 5,350 | 0.22 | 0.04 | — | 5,369 | |
| Dust From Material Movement | — | — | — | — | — | — | 1.12 | 1.12 | — | 0.54 | 0.54 | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.58 | 0.49 | 4.16 | 5.72 | 0.01 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | — | 886 | 886 | 0.04 | 0.01 | — | 889 | |
| Dust From Material Movement | — | — | — | — | — | — | 0.20 | 0.20 | — | 0.10 | 0.10 | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.09 | 0.08 | 0.06 | 1.25 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 365 | 365 | < 0.005 | < 0.005 | 0.85 | 366 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 1.30 | 0.25 | 17.3 | 7.88 | 0.11 | 0.22 | 4.42 | 4.64 | 0.22 | 1.24 | 1.45 | — | 15,233 | 15,233 | 1.04 | 2.43 | 24.0 | 16,009 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.09 | 0.08 | 0.08 | 1.07 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 347 | 347 | < 0.005 | < 0.005 | 0.02 | 348 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | | | | | | | | | | | | | | | | |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Hauling | 1.28 | 0.23 | 17.9 | 7.95 | 0.11 | 0.22 | 4.42 | 4.64 | 0.22 | 1.24 | 1.45 | — | 15,240 | 15,240 | 1.04 | 2.43 | 0.62 | 15,992 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.02 | 0.02 | 0.34 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 106 | 106 | < 0.005 | < 0.005 | 0.11 | 106 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.39 | 0.07 | 5.47 | 2.39 | 0.03 | 0.06 | 1.32 | 1.38 | 0.06 | 0.37 | 0.44 | — | 4,592 | 4,592 | 0.31 | 0.73 | 3.12 | 4,821 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 0.02 | 17.6 |
| 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 | 0.07 | 0.01 | 1.00 | 0.44 | 0.01 | 0.01 | 0.24 | 0.25 | 0.01 | 0.07 | 0.08 | — | 760 | 760 | 0.05 | 0.12 | 0.52 | 798 |

3.6. Grading (2030) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.57 | 0.57 | 4.08 | 35.5 | 0.05 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | — | 5,918 | 5,918 | 0.24 | 0.05 | — | 5,938 |
| Dust From Material Movement | — | — | — | — | — | — | 3.71 | 3.71 | — | 1.78 | 1.78 | — | — | — | — | — | — | — |
| 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 | 0.57 | 0.57 | 4.08 | 35.5 | 0.05 | 0.11 | — | 0.11 | 0.11 | — | 0.11 | — | 5,918 | 5,918 | 0.24 | 0.05 | — | 5,938 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Dust From Material Movement: | — | — | — | — | — | — | 3.71 | 3.71 | — | 1.78 | 1.78 | — | — | — | — | — | — | — |
| 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 | 0.17 | 0.17 | 1.23 | 10.7 | 0.02 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 1,783 | 1,783 | 0.07 | 0.01 | — | 1,790 |
| Dust From Material Movement: | — | — | — | — | — | — | 1.12 | 1.12 | — | 0.54 | 0.54 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.22 | 1.95 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 295 | 295 | 0.01 | < 0.005 | — | 296 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.20 | 0.20 | — | 0.10 | 0.10 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.06 | 1.25 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 365 | 365 | < 0.005 | < 0.005 | 0.85 | 366 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 1.30 | 0.25 | 17.3 | 7.88 | 0.11 | 0.22 | 4.42 | 4.64 | 0.22 | 1.24 | 1.45 | — | 15,233 | 15,233 | 1.04 | 2.43 | 24.0 | 16,009 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Worker | 0.09 | 0.08 | 0.08 | 1.07 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 347 | 347 | < 0.005 | < 0.005 | 0.02 | 348 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 1.28 | 0.23 | 17.9 | 7.95 | 0.11 | 0.22 | 4.42 | 4.64 | 0.22 | 1.24 | 1.45 | — | 15,240 | 15,240 | 1.04 | 2.43 | 0.62 | 15,992 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.02 | 0.02 | 0.34 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 106 | 106 | < 0.005 | < 0.005 | 0.11 | 106 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.39 | 0.07 | 5.47 | 2.39 | 0.03 | 0.06 | 1.32 | 1.38 | 0.06 | 0.37 | 0.44 | — | 4,592 | 4,592 | 0.31 | 0.73 | 3.12 | 4,821 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | < 0.005 | < 0.005 | — | 17.6 | 17.6 | < 0.005 | < 0.005 | 0.02 | 17.6 |
| 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 | 0.07 | 0.01 | 1.00 | 0.44 | 0.01 | 0.01 | 0.24 | 0.25 | 0.01 | 0.07 | 0.08 | — | 760 | 760 | 0.05 | 0.12 | 0.52 | 798 |

3.7. Building Construction (2031) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.59 | 5.51 | 48.7 | 77.1 | 0.14 | 1.46 | — | 1.46 | 1.34 | — | 1.34 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.59 | 5.51 | 48.7 | 77.1 | 0.14 | 1.46 | — | 1.46 | 1.34 | — | 1.34 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.30 | 3.60 | 31.8 | 50.4 | 0.09 | 0.95 | — | 0.95 | 0.88 | — | 0.88 | — | 9,400 | 9,400 | 0.38 | 0.08 | — | 9,432 | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.79 | 0.66 | 5.81 | 9.19 | 0.02 | 0.17 | — | 0.17 | 0.16 | — | 0.16 | — | 1,556 | 1,556 | 0.06 | 0.01 | — | 1,562 | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 2.26 | 2.22 | 1.91 | 35.8 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,936 | 10,936 | 0.10 | 0.06 | 22.9 | 10,980 | |
| Vendor | 0.41 | 0.13 | 5.47 | 2.77 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,757 | 5,757 | 0.27 | 0.83 | 9.51 | 6,022 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 2.26 | 2.20 | 1.95 | 30.7 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,411 | 10,411 | 0.12 | 0.06 | 0.59 | 10,432 | |
| Vendor | 0.40 | 0.13 | 5.70 | 2.84 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,761 | 5,761 | 0.27 | 0.83 | 0.25 | 6,016 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 1.47 | 1.44 | 1.28 | 20.9 | 0.00 | 0.00 | 7.70 | 7.70 | 0.00 | 1.80 | 1.80 | — | 6,897 | 6,897 | 0.08 | 0.04 | 6.47 | 6,917 | |
| Vendor | 0.26 | 0.09 | 3.75 | 1.83 | 0.03 | 0.03 | 1.16 | 1.19 | 0.03 | 0.32 | 0.35 | — | 3,764 | 3,764 | 0.17 | 0.55 | 2.69 | 3,933 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

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|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Worker | 0.27 | 0.26 | 0.23 | 3.82 | 0.00 | 0.00 | 1.41 | 1.41 | 0.00 | 0.33 | 0.33 | — | 1,142 | 1,142 | 0.01 | 0.01 | 1.07 | 1,145 |
| Vendor | 0.05 | 0.02 | 0.68 | 0.33 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.06 | — | 623 | 623 | 0.03 | 0.09 | 0.45 | 651 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2031) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.05 | 1.77 | 13.8 | 38.3 | 0.06 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.05 | 1.77 | 13.8 | 38.3 | 0.06 | 0.35 | — | 0.35 | 0.32 | — | 0.32 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.34 | 1.15 | 9.03 | 25.0 | 0.04 | 0.23 | — | 0.23 | 0.21 | — | 0.21 | — | 3,947 | 3,947 | 0.16 | 0.03 | — | 3,961 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.24 | 0.21 | 1.65 | 4.57 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 653 | 653 | 0.03 | 0.01 | — | 656 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.26 | 2.22 | 1.91 | 35.8 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,936 | 10,936 | 0.10 | 0.06 | 22.9 | 10,980 | |
| Vendor | 0.41 | 0.13 | 5.47 | 2.77 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,757 | 5,757 | 0.27 | 0.83 | 9.51 | 6,022 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.26 | 2.20 | 1.95 | 30.7 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,411 | 10,411 | 0.12 | 0.06 | 0.59 | 10,432 | |
| Vendor | 0.40 | 0.13 | 5.70 | 2.84 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,761 | 5,761 | 0.27 | 0.83 | 0.25 | 6,016 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.47 | 1.44 | 1.28 | 20.9 | 0.00 | 0.00 | 7.70 | 7.70 | 0.00 | 1.80 | 1.80 | — | 6,897 | 6,897 | 0.08 | 0.04 | 6.47 | 6,917 | |
| Vendor | 0.26 | 0.09 | 3.75 | 1.83 | 0.03 | 0.03 | 1.16 | 1.19 | 0.03 | 0.32 | 0.35 | — | 3,764 | 3,764 | 0.17 | 0.55 | 2.69 | 3,933 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.26 | 0.23 | 3.82 | 0.00 | 0.00 | 1.41 | 1.41 | 0.00 | 0.33 | 0.33 | — | 1,142 | 1,142 | 0.01 | 0.01 | 1.07 | 1,145 | |
| Vendor | 0.05 | 0.02 | 0.68 | 0.33 | 0.01 | 0.01 | 0.21 | 0.22 | 0.01 | 0.06 | 0.06 | — | 623 | 623 | 0.03 | 0.09 | 0.45 | 651 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2032) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.42 | 5.37 | 47.2 | 76.7 | 0.14 | 1.34 | — | 1.34 | 1.24 | — | 1.24 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.42 | 5.37 | 47.2 | 76.7 | 0.14 | 1.34 | — | 1.34 | 1.24 | — | 1.24 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.83 | 3.21 | 28.2 | 45.8 | 0.08 | 0.80 | — | 0.80 | 0.74 | — | 0.74 | — | 8,584 | 8,584 | 0.35 | 0.07 | — | 8,613 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.70 | 0.59 | 5.14 | 8.36 | 0.02 | 0.15 | — | 0.15 | 0.13 | — | 0.13 | — | 1,421 | 1,421 | 0.06 | 0.01 | — | 1,426 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.18 | 2.14 | 1.52 | 34.0 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,778 | 10,778 | 0.10 | 0.06 | 20.0 | 10,818 |
| Vendor | 0.41 | 0.13 | 5.25 | 2.67 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,555 | 5,555 | 0.27 | 0.79 | 8.23 | 5,804 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.18 | 2.14 | 1.93 | 29.3 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,260 | 10,260 | 0.10 | 0.06 | 0.52 | 10,281 |
| Vendor | 0.40 | 0.13 | 5.48 | 2.73 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,559 | 5,559 | 0.27 | 0.79 | 0.21 | 5,800 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.29 | 1.27 | 1.15 | 18.3 | 0.00 | 0.00 | 7.03 | 7.03 | 0.00 | 1.65 | 1.65 | — | 6,207 | 6,207 | 0.06 | 0.04 | 5.15 | 6,225 |
| Vendor | 0.24 | 0.08 | 3.27 | 1.61 | 0.03 | 0.03 | 1.06 | 1.09 | 0.03 | 0.29 | 0.32 | — | 3,316 | 3,316 | 0.16 | 0.47 | 2.11 | 3,463 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.23 | 0.21 | 3.34 | 0.00 | 0.00 | 1.28 | 1.28 | 0.00 | 0.30 | 0.30 | — | 1,028 | 1,028 | 0.01 | 0.01 | 0.85 | 1,031 |
| Vendor | 0.04 | 0.01 | 0.60 | 0.29 | 0.01 | 0.01 | 0.19 | 0.20 | 0.01 | 0.05 | 0.06 | — | 549 | 549 | 0.03 | 0.08 | 0.35 | 573 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.10. Building Construction (2032) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.03 | 1.74 | 13.8 | 38.3 | 0.06 | 0.33 | — | 0.33 | 0.31 | — | 0.31 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Off-Road Equipment | 2.03 | 1.74 | 13.8 | 38.3 | 0.06 | 0.33 | — | 0.33 | 0.31 | — | 0.31 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.21 | 1.04 | 8.21 | 22.8 | 0.04 | 0.20 | — | 0.20 | 0.19 | — | 0.19 | — | 3,604 | 3,604 | 0.15 | 0.03 | — | 3,617 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.22 | 0.19 | 1.50 | 4.17 | 0.01 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 597 | 597 | 0.02 | < 0.005 | — | 599 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.18 | 2.14 | 1.52 | 34.0 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,778 | 10,778 | 0.10 | 0.06 | 20.0 | 10,818 |
| Vendor | 0.41 | 0.13 | 5.25 | 2.67 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,555 | 5,555 | 0.27 | 0.79 | 8.23 | 5,804 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.18 | 2.14 | 1.93 | 29.3 | 0.00 | 0.00 | 11.9 | 11.9 | 0.00 | 2.80 | 2.80 | — | 10,260 | 10,260 | 0.10 | 0.06 | 0.52 | 10,281 |
| Vendor | 0.40 | 0.13 | 5.48 | 2.73 | 0.05 | 0.05 | 1.79 | 1.84 | 0.05 | 0.50 | 0.54 | — | 5,559 | 5,559 | 0.27 | 0.79 | 0.21 | 5,800 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.29 | 1.27 | 1.15 | 18.3 | 0.00 | 0.00 | 7.03 | 7.03 | 0.00 | 1.65 | 1.65 | — | 6,207 | 6,207 | 0.06 | 0.04 | 5.15 | 6,225 |
| Vendor | 0.24 | 0.08 | 3.27 | 1.61 | 0.03 | 0.03 | 1.06 | 1.09 | 0.03 | 0.29 | 0.32 | — | 3,316 | 3,316 | 0.16 | 0.47 | 2.11 | 3,463 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.24 | 0.23 | 0.21 | 3.34 | 0.00 | 0.00 | 1.28 | 1.28 | 0.00 | 0.30 | 0.30 | — | 1,028 | 1,028 | 0.01 | 0.01 | 0.85 | 1,031 | |
| Vendor | 0.04 | 0.01 | 0.60 | 0.29 | 0.01 | 0.01 | 0.19 | 0.20 | 0.01 | 0.05 | 0.06 | — | 549 | 549 | 0.03 | 0.08 | 0.35 | 573 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

3.11. Paving (2030) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.60 | 3.86 | 37.7 | 59.4 | 0.08 | 1.32 | — | 1.32 | 1.22 | — | 1.22 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.83 | 0.70 | 6.78 | 10.7 | 0.02 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 1,632 | 1,632 | 0.07 | 0.01 | — | 1,637 |
| 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 | 0.15 | 0.13 | 1.24 | 1.95 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 270 | 270 | 0.01 | < 0.005 | — | 271 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.08 | 1.07 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 347 | 347 | < 0.005 | < 0.005 | 0.02 | 348 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.01 | 0.01 | 0.20 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 63.4 | 63.4 | < 0.005 | < 0.005 | 0.07 | 63.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01 | 10.5 |
| 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 |

3.12. Paving (2030) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 |
| Paving | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.06 | 0.70 | 3.82 | 0.01 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 544 | 544 | 0.02 | < 0.005 | — | 546 |
| 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 | 0.01 | 0.01 | 0.13 | 0.70 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 90.1 | 90.1 | < 0.005 | < 0.005 | — | 90.4 |
| 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.08 | 1.07 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 347 | 347 | < 0.005 | < 0.005 | 0.02 | 348 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|------|------|---------|---------|------|------|
| Worker | 0.02 | 0.01 | 0.01 | 0.20 | 0.00 | 0.00 | 0.07 | 0.07 | 0.00 | 0.02 | 0.02 | — | 63.4 | 63.4 | < 0.005 | < 0.005 | 0.07 | 63.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.04 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01 | 10.5 |
| 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 |

3.13. Paving (2031) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.48 | 3.77 | 36.8 | 59.3 | 0.08 | 1.26 | — | 1.26 | 1.16 | — | 1.16 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.48 | 3.77 | 36.8 | 59.3 | 0.08 | 1.26 | — | 1.26 | 1.16 | — | 1.16 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 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 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|---------|---------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment | 1.86 | 1.56 | 15.2 | 24.6 | 0.03 | 0.52 | — | 0.52 | 0.48 | — | 0.48 | — | 3,760 | 3,760 | 0.15 | 0.03 | — | 3,773 |
| Paving | — | 0.03 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.34 | 0.29 | 2.78 | 4.49 | 0.01 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | — | 623 | 623 | 0.03 | 0.01 | — | 625 |
| 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 | 0.07 | 0.07 | 0.06 | 1.18 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 359 | 359 | < 0.005 | < 0.005 | 0.75 | 361 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.07 | 0.06 | 1.01 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 342 | 342 | < 0.005 | < 0.005 | 0.02 | 343 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.44 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.04 | 0.04 | — | 144 | 144 | < 0.005 | < 0.005 | 0.14 | 144 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.08 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 23.8 | 23.8 | < 0.005 | < 0.005 | 0.02 | 23.9 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2031) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e | |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 | |
| Paving | — | 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 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 | |
| Paving | — | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.13 | 1.60 | 8.80 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 1,253 | 1,253 | 0.05 | 0.01 | — | 1,258 | |
| Paving | — | 0.03 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|---------|---------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Off-Road Equipment | 0.02 | 0.02 | 0.29 | 1.61 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 208 | 208 | 0.01 | < 0.005 | — | 208 |
| 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 | 0.07 | 0.07 | 0.06 | 1.18 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 359 | 359 | < 0.005 | < 0.005 | 0.75 | 361 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.07 | 0.06 | 1.01 | 0.00 | 0.00 | 0.39 | 0.39 | 0.00 | 0.09 | 0.09 | — | 342 | 342 | < 0.005 | < 0.005 | 0.02 | 343 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.44 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.04 | 0.04 | — | 144 | 144 | < 0.005 | < 0.005 | 0.14 | 144 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.08 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — | 23.8 | 23.8 | < 0.005 | < 0.005 | 0.02 | 23.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.15. Architectural Coating (2032) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.68 | 0.56 | 4.62 | 6.60 | 0.01 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architect ural Coatings | — | 119 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.68 | 0.56 | 4.62 | 6.60 | 0.01 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architect ural Coatings | — | 119 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 1.39 | 1.99 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 241 | 241 | 0.01 | < 0.005 | — | 242 |
| Architect ural Coatings | — | 36.0 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.25 | 0.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 40.0 | 40.0 | < 0.005 | < 0.005 | — | 40.1 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Architect Coatings | — | 6.56 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.30 | 6.81 | 0.00 | 0.00 | 2.39 | 2.39 | 0.00 | 0.56 | 0.56 | — | 2,156 | 2,156 | 0.02 | 0.01 | 4.00 | 2,164 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.39 | 5.86 | 0.00 | 0.00 | 2.39 | 2.39 | 0.00 | 0.56 | 0.56 | — | 2,052 | 2,052 | 0.02 | 0.01 | 0.10 | 2,056 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.13 | 0.12 | 1.85 | 0.00 | 0.00 | 0.71 | 0.71 | 0.00 | 0.17 | 0.17 | — | 627 | 627 | 0.01 | < 0.005 | 0.52 | 629 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.34 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 104 | 104 | < 0.005 | < 0.005 | 0.09 | 104 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2032) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|------------------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|------|------|---------|---------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architectural Coatings | — | 23.3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architectural Coatings | — | 23.3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.39 | 0.58 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 80.5 | 80.5 | < 0.005 | < 0.005 | — | 80.7 |
| Architectural Coatings | — | 7.01 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.07 | 0.11 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.3 | 13.3 | < 0.005 | < 0.005 | — | 13.4 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Architectural Coatings | — | 1.28 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.30 | 6.81 | 0.00 | 0.00 | 2.39 | 2.39 | 0.00 | 0.56 | 0.56 | — | 2,156 | 2,156 | 0.02 | 0.01 | 4.00 | 2,164 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.44 | 0.43 | 0.39 | 5.86 | 0.00 | 0.00 | 2.39 | 2.39 | 0.00 | 0.56 | 0.56 | — | 2,052 | 2,052 | 0.02 | 0.01 | 0.10 | 2,056 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.13 | 0.13 | 0.12 | 1.85 | 0.00 | 0.00 | 0.71 | 0.71 | 0.00 | 0.17 | 0.17 | — | 627 | 627 | 0.01 | < 0.005 | 0.52 | 629 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.34 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 104 | 104 | < 0.005 | < 0.005 | 0.09 | 104 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 10.4 | 9.48 | 5.88 | 77.1 | 0.22 | 0.10 | 9.11 | 9.21 | 0.10 | 1.61 | 1.71 | — | 22,268 | 22,268 | 0.90 | 0.83 | 34.0 | 22,571 |
| Regional Shopping Center | 5.51 | 5.21 | 2.32 | 26.7 | 0.06 | 0.03 | 2.51 | 2.55 | 0.03 | 0.45 | 0.48 | — | 6,346 | 6,346 | 0.38 | 0.30 | 9.39 | 6,455 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 15.9 | 14.7 | 8.20 | 104 | 0.28 | 0.14 | 11.6 | 11.8 | 0.13 | 2.06 | 2.18 | — | 28,614 | 28,614 | 1.27 | 1.13 | 43.4 | 29,026 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 10.3 | 9.45 | 6.39 | 71.9 | 0.21 | 0.10 | 9.11 | 9.21 | 0.10 | 1.61 | 1.71 | — | 21,414 | 21,414 | 0.93 | 0.87 | 0.88 | 21,696 |
| Regional Shopping Center | 5.51 | 5.20 | 2.51 | 26.2 | 0.06 | 0.03 | 2.51 | 2.55 | 0.03 | 0.45 | 0.48 | — | 6,113 | 6,113 | 0.40 | 0.32 | 0.24 | 6,218 |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 15.8 | 14.6 | 8.90 | 98.1 | 0.27 | 0.14 | 11.6 | 11.8 | 0.13 | 2.06 | 2.18 | — | 27,527 | 27,527 | 1.33 | 1.18 | 1.13 | 27,914 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Apartments Mid Rise | 1.87 | 1.71 | 1.17 | 13.4 | 0.04 | 0.02 | 1.66 | 1.68 | 0.02 | 0.29 | 0.31 | — | 3,583 | 3,583 | 0.15 | 0.14 | 2.43 | 3,633 | |
| Regional Shopping Center | 0.99 | 0.93 | 0.44 | 4.63 | 0.01 | 0.01 | 0.42 | 0.43 | 0.01 | 0.08 | 0.08 | — | 950 | 950 | 0.06 | 0.05 | 0.62 | 967 | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total | 2.85 | 2.64 | 1.62 | 18.0 | 0.05 | 0.02 | 2.09 | 2.11 | 0.02 | 0.37 | 0.39 | — | 4,534 | 4,534 | 0.22 | 0.19 | 3.05 | 4,600 | |

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 | 7.25 | 6.64 | 4.12 | 54.0 | 0.15 | 0.07 | 6.38 | 6.45 | 0.07 | 1.13 | 1.20 | — | 15,588 | 15,588 | 0.63 | 0.58 | 23.8 | 15,800 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Regional Shopping Center | 5.39 | 5.09 | 2.26 | 26.1 | 0.06 | 0.03 | 2.46 | 2.49 | 0.03 | 0.43 | 0.46 | — | 6,201 | 6,201 | 0.37 | 0.30 | 9.17 | 6,308 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 12.6 | 11.7 | 6.38 | 80.1 | 0.21 | 0.10 | 8.83 | 8.94 | 0.10 | 1.56 | 1.66 | — | 21,789 | 21,789 | 1.00 | 0.88 | 33.0 | 22,108 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 7.23 | 6.61 | 4.47 | 50.3 | 0.15 | 0.07 | 6.38 | 6.45 | 0.07 | 1.13 | 1.20 | — | 14,990 | 14,990 | 0.65 | 0.61 | 0.62 | 15,188 |
| Regional Shopping Center | 5.38 | 5.08 | 2.45 | 25.6 | 0.06 | 0.03 | 2.46 | 2.49 | 0.03 | 0.43 | 0.46 | — | 5,973 | 5,973 | 0.39 | 0.31 | 0.24 | 6,076 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 12.6 | 11.7 | 6.93 | 75.9 | 0.21 | 0.10 | 8.83 | 8.94 | 0.10 | 1.56 | 1.66 | — | 20,963 | 20,963 | 1.04 | 0.92 | 0.86 | 21,263 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 1.31 | 1.20 | 0.82 | 9.40 | 0.03 | 0.01 | 1.16 | 1.18 | 0.01 | 0.21 | 0.22 | — | 2,508 | 2,508 | 0.11 | 0.10 | 1.70 | 2,543 |
| Regional Shopping Center | 0.96 | 0.91 | 0.43 | 4.52 | 0.01 | 0.01 | 0.41 | 0.42 | 0.01 | 0.07 | 0.08 | — | 928 | 928 | 0.06 | 0.05 | 0.61 | 945 |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 2.27 | 2.11 | 1.25 | 13.9 | 0.04 | 0.02 | 1.58 | 1.60 | 0.02 | 0.28 | 0.30 | — | 3,437 | 3,437 | 0.17 | 0.15 | 2.31 | 3,488 | |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 4,574 | 4,574 | 0.28 | 0.03 | — | 4,591 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 930 | 930 | 0.06 | 0.01 | — | 934 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 3,529 | 3,529 | 0.22 | 0.03 | — | 3,543 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 9,033 | 9,033 | 0.56 | 0.07 | — | 9,068 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|---------|---|-------|
| Apartme Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 4,574 | 4,574 | 0.28 | 0.03 | — | 4,591 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 930 | 930 | 0.06 | 0.01 | — | 934 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 3,529 | 3,529 | 0.22 | 0.03 | — | 3,543 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 9,033 | 9,033 | 0.56 | 0.07 | — | 9,068 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartme nts Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 757 | 757 | 0.05 | 0.01 | — | 760 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 154 | 154 | 0.01 | < 0.005 | — | 155 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 584 | 584 | 0.04 | < 0.005 | — | 587 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 1,496 | 1,496 | 0.09 | 0.01 | — | 1,501 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | 4,553 | 4,553 | 0.28 | 0.03 | — | 4,570 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 846 | 846 | 0.05 | 0.01 | — | 849 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 3,556 | 3,556 | 0.22 | 0.03 | — | 3,570 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 8,955 | 8,955 | 0.56 | 0.07 | — | 8,989 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 4,519 | 4,519 | 0.28 | 0.03 | — | 4,536 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 843 | 843 | 0.05 | 0.01 | — | 846 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 3,529 | 3,529 | 0.22 | 0.03 | — | 3,543 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 8,891 | 8,891 | 0.55 | 0.07 | — | 8,925 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|---------|---|-------|
| Apartments | — | — | — | — | — | — | — | — | — | — | — | — | 752 | 752 | 0.05 | 0.01 | — | 755 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 140 | 140 | 0.01 | < 0.005 | — | 140 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 587 | 587 | 0.04 | < 0.005 | — | 590 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 1,479 | 1,479 | 0.09 | 0.01 | — | 1,485 |

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 | 0.28 | 0.14 | 2.40 | 1.02 | 0.02 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | — | 3,047 | 3,047 | 0.27 | 0.01 | — | 3,055 |
| Regional Shopping Center | 0.01 | 0.01 | 0.10 | 0.09 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 125 | 125 | 0.01 | < 0.005 | — | 125 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.29 | 0.15 | 2.51 | 1.11 | 0.02 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 3,172 | 3,172 | 0.28 | 0.01 | — | 3,181 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|-------|-------|---------|---------|---|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.28 | 0.14 | 2.40 | 1.02 | 0.02 | 0.19 | — | 0.19 | 0.19 | — | 0.19 | — | 3,047 | 3,047 | 0.27 | 0.01 | — | 3,055 |
| Regional Shopping Center | 0.01 | 0.01 | 0.10 | 0.09 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 125 | 125 | 0.01 | < 0.005 | — | 125 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.29 | 0.15 | 2.51 | 1.11 | 0.02 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 3,172 | 3,172 | 0.28 | 0.01 | — | 3,181 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.05 | 0.03 | 0.44 | 0.19 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 504 | 504 | 0.04 | < 0.005 | — | 506 |
| Regional Shopping Center | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 20.6 | 20.6 | < 0.005 | < 0.005 | — | 20.7 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.05 | 0.03 | 0.46 | 0.20 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 525 | 525 | 0.05 | < 0.005 | — | 527 |

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 | 0.25 | 0.12 | 2.13 | 0.91 | 0.01 | 0.17 | — | 0.17 | 0.17 | — | 0.17 | — | 2,700 | 2,700 | 0.24 | 0.01 | — | 2,708 |
| Regional Shopping Center | 0.01 | 0.01 | 0.10 | 0.09 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 124 | 124 | 0.01 | < 0.005 | — | 124 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.26 | 0.13 | 2.23 | 0.99 | 0.01 | 0.18 | — | 0.18 | 0.18 | — | 0.18 | — | 2,824 | 2,824 | 0.25 | 0.01 | — | 2,832 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.25 | 0.12 | 2.13 | 0.91 | 0.01 | 0.17 | — | 0.17 | 0.17 | — | 0.17 | — | 2,700 | 2,700 | 0.24 | 0.01 | — | 2,708 |
| Regional Shopping Center | 0.01 | 0.01 | 0.10 | 0.09 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 124 | 124 | 0.01 | < 0.005 | — | 124 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.26 | 0.13 | 2.23 | 0.99 | 0.01 | 0.18 | — | 0.18 | 0.18 | — | 0.18 | — | 2,824 | 2,824 | 0.25 | 0.01 | — | 2,832 |

| | | | | | | | | | | | | | | | | | | |
|---|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.05 | 0.02 | 0.39 | 0.17 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 447 | 447 | 0.04 | < 0.005 | — | 448 |
| Regional Shopping Center | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 20.5 | 20.5 | < 0.005 | < 0.005 | — | 20.5 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.05 | 0.02 | 0.41 | 0.18 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 467 | 467 | 0.04 | < 0.005 | — | 469 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 21.6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 1.80 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|------|---|------|------|---|------|------|------|------|---------|---------|---|------|
| Landscape Equipment | 10.0 | 9.35 | 0.71 | 80.1 | < 0.005 | 0.06 | — | 0.06 | 0.08 | — | 0.08 | — | 259 | 259 | 0.01 | < 0.005 | — | 260 |
| Total | 10.0 | 32.7 | 0.71 | 80.1 | < 0.005 | 0.06 | — | 0.06 | 0.08 | — | 0.08 | 0.00 | 259 | 259 | 0.01 | < 0.005 | — | 260 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 21.6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 1.80 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 23.3 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 3.93 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.33 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 1.25 | 1.17 | 0.09 | 10.0 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 29.3 | 29.3 | < 0.005 | < 0.005 | — | 29.5 |
| Total | 1.25 | 5.43 | 0.09 | 10.0 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 0.00 | 29.3 | 29.3 | < 0.005 | < 0.005 | — | 29.5 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 21.6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.35 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 21.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 21.6 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.35 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 21.9 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 3.93 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.06 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.4. Water Emissions by Land Use

4.4.2. 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 | — | — | — | — | — | — | — | — | — | — | — | 61.6 | 319 | 380 | 6.33 | 0.15 | — | 584 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 9.23 | 47.8 | 57.0 | 0.95 | 0.02 | — | 87.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 61.6 | 319 | 380 | 6.33 | 0.15 | — | 584 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 9.23 | 47.8 | 57.0 | 0.95 | 0.02 | — | 87.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 10.2 | 52.8 | 63.0 | 1.05 | 0.03 | — | 96.7 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 1.53 | 7.91 | 9.44 | 0.16 | < 0.005 | — | 14.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 11.7 | 60.7 | 72.4 | 1.21 | 0.03 | — | 111 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 61.6 | 319 | 380 | 6.33 | 0.15 | — | 584 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 9.23 | 47.8 | 57.0 | 0.95 | 0.02 | — | 87.5 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 61.6 | 319 | 380 | 6.33 | 0.15 | — | 584 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 9.23 | 47.8 | 57.0 | 0.95 | 0.02 | — | 87.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 70.8 | 366 | 437 | 7.28 | 0.18 | — | 671 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 10.2 | 52.8 | 63.0 | 1.05 | 0.03 | — | 96.7 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 1.53 | 7.91 | 9.44 | 0.16 | < 0.005 | — | 14.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 11.7 | 60.7 | 72.4 | 1.21 | 0.03 | — | 111 |

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 | — | — | — | — | — | — | — | — | — | — | — | 341 | 0.00 | 341 | 34.1 | 0.00 | — | 1,194 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 36.8 | 0.00 | 36.8 | 3.68 | 0.00 | — | 129 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 341 | 0.00 | 341 | 34.1 | 0.00 | — | 1,194 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|-------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 36.8 | 0.00 | 36.8 | 3.68 | 0.00 | — | 129 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 56.5 | 0.00 | 56.5 | 5.65 | 0.00 | — | 198 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 6.09 | 0.00 | 6.09 | 0.61 | 0.00 | — | 21.3 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 62.6 | 0.00 | 62.6 | 6.25 | 0.00 | — | 219 |

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 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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|-------|
| Apartment Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 341 | 0.00 | 341 | 34.1 | 0.00 | — | 1,194 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 36.8 | 0.00 | 36.8 | 3.68 | 0.00 | — | 129 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 341 | 0.00 | 341 | 34.1 | 0.00 | — | 1,194 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 36.8 | 0.00 | 36.8 | 3.68 | 0.00 | — | 129 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 378 | 0.00 | 378 | 37.8 | 0.00 | — | 1,322 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 56.5 | 0.00 | 56.5 | 5.65 | 0.00 | — | 198 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 6.09 | 0.00 | 6.09 | 0.61 | 0.00 | — | 21.3 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 62.6 | 0.00 | 62.6 | 6.25 | 0.00 | — | 219 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.74 | 6.74 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.31 | 0.31 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.74 | 6.74 |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.31 | 0.31 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.12 | 1.12 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.74 | 6.74 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.31 | 0.31 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 6.74 | 6.74 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.31 | 0.31 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 7.06 | 7.06 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.12 | 1.12 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.05 | 0.05 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |

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 d | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest ered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove d | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequest ered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Remove 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 | 4/1/2030 | 5/31/2030 | 5.00 | 45.0 | — |
| Site Preparation | Site Preparation | 6/1/2030 | 6/30/2030 | 5.00 | 20.0 | — |
| Grading | Grading | 7/1/2030 | 11/30/2030 | 5.00 | 110 | — |
| Building Construction | Building Construction | 2/1/2031 | 10/31/2032 | 5.00 | 455 | — |
| Paving | Paving | 10/1/2030 | 7/31/2031 | 5.00 | 218 | — |
| Architectural Coating | Architectural Coating | 8/1/2032 | 12/31/2032 | 5.00 | 110 | — |

5.2. Off-Road Equipment

5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |

| | | | | | | | |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |

| | | | | | | | |
|-----------------------|------------------------|--------|---------|------|------|------|------|
| Building Construction | Tractors/Loaders/Backh | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|---------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |

| | | | | | | | |
|-----------------------|---------------------------|--------|--------------|------|------|------|------|
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 152 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 244 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 913 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 210 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 183 | 18.5 | LDA,LDT1,LDT2 |

| | | | | |
|-----------------------|--------------|------|------|-----------|
| Architectural Coating | Vendor | — | 10.2 | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 152 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 244 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 913 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 210 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |

| | | | | |
|-----------------------|--------------|------|------|---------------|
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 183 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | 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% |
| Sweep paved roads once per month | 9% | 9% |

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 | 1,906,740 | 635,580 | 102,714 | 33,079 | 8,154 |
| Architectural Coating | 1,906,740 | 635,580 | 102,714 | 33,079 | 8,154 |

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------------|---------------------|
| Demolition | 0.00 | 0.00 | 0.00 | 27,346 | — |
| Site Preparation | — | — | 60.0 | 0.00 | — |
| Grading | — | 214,906 | 40.0 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area | 3 | 74% | 74% |
| Water Demolished Area | 2 | 36% | 36% |

5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|--------------------------------|--------------------|-----------|
| Apartments Mid Rise | — | 0% |
| Apartments Mid Rise | — | 0% |
| Regional Shopping Center | 0.00 | 0% |
| Enclosed Parking with Elevator | 2.66 | 100% |
| Other Asphalt Surfaces | 2.64 | 100% |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|------|--------------|-----|------|---------|
| 2030 | 0.00 | 261 | 0.03 | < 0.005 |
| 2031 | 0.00 | 261 | 0.03 | < 0.005 |
| 2032 | 0.00 | 261 | 0.03 | < 0.005 |

| | | | | |
|------|------|-----|------|---------|
| 2032 | 0.00 | 261 | 0.03 | < 0.005 |
| 2032 | 0.00 | 261 | 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 | 3,886 | 3,886 | 3,886 | 1,418,478 | 32,931 | 32,931 | 32,931 | 12,019,755 |
| Regional Shopping Center | 2,406 | 2,406 | 2,406 | 878,299 | 8,134 | 9,090 | 9,090 | 3,068,622 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 2,720 | 2,720 | 2,720 | 992,934 | 23,052 | 23,052 | 23,052 | 8,413,828 |
| Regional Shopping Center | 2,351 | 2,351 | 2,351 | 858,283 | 7,949 | 8,883 | 8,883 | 2,998,690 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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 | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 86 |
| 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 | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 86 |
| 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) |
|--|--|--|--|-----------------------------|
| 1906740 | 635,580 | 102,714 | 33,079 | 8,154 |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

5.10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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 | 3,137,954 | 532 | 0.0330 | 0.0040 | 9,507,458 |
| Regional Shopping Center | 638,389 | 532 | 0.0330 | 0.0040 | 389,151 |
| Enclosed Parking with Elevator | 2,421,579 | 532 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 532 | 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 | 3,100,486 | 532 | 0.0330 | 0.0040 | 8,424,903 |
| Regional Shopping Center | 578,292 | 532 | 0.0330 | 0.0040 | 385,840 |
| Enclosed Parking with Elevator | 2,421,579 | 532 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 532 | 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 | 32,121,956 | 0.00 |
| Regional Shopping Center | 4,814,714 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |

5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise | 32,121,956 | 0.00 |
| Regional Shopping Center | 4,814,714 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|----------|------------------|-------------------------|
|----------|------------------|-------------------------|

| | | |
|--------------------------------|--------|------|
| Apartments Mid Rise | 633.01 | 0.00 |
| Regional Shopping Center | 68.25 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |

5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Apartments Mid Rise | 633.01 | 0.00 |
| Regional Shopping Center | 68.25 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 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 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.14.2. Mitigated

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

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| 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 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |

| | | | | |
|-------------------------|-----|-----|-----|-----|
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |

| | |
|--------------|------|
| Unemployment | 3.58 |
|--------------|------|

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |

| | |
|--|-------------|
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |

| | |
|---------------------------------------|------|
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|---|--|
| Land Use | Adjusted per project specific details. Landscape area included in Phase 1. |
| Construction: Construction Phases | anticipated construction schedule |
| Construction: Paving | other asphalt surfaces increased to capture all potential paved areas |
| Operations: Vehicle Data | trip generation per traffic study |
| Operations: Hearths | No wood burning per SCAQMD Rule 445 |
| Construction: Dust From Material Movement | Excavation export |

Bristol Phase 3 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 | Bristol Phase 3 |
| Construction Start Date | 1/1/2033 |
| Operational Year | 2035 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.698543616352495, -117.887579136088 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 | 1,519 | Dwelling Unit | 7.96 | 1,670,920 | 0.00 | — | 4,527 | — |
| Regional Shopping Center | 35.0 | 1000sqft | 0.17 | 35,000 | 0.00 | — | — | — |
| Enclosed Parking with Elevator | 1,028 | 1000sqft | 4.90 | 1,028,000 | 0.00 | — | — | — |
| Other Asphalt Surfaces | 150 | 1000sqft | 0.71 | 0.00 | 0.00 | — | — | — |
| City Park | 2.69 | Acre | 2.69 | 0.00 | 0.00 | 0.00 | — | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector | # | Measure Title |
|----------------|---------|--|
| Construction | C-2* | Limit Heavy-Duty Diesel Vehicle Idling |
| Construction | C-5 | Use Advanced Engine Tiers |
| Construction | C-13 | Use Low-VOC Paints for Construction |
| Transportation | T-1 | Increase Residential Density |
| Transportation | T-5 | Implement Commute Trip Reduction Program (Voluntary) |
| Transportation | T-11* | Provide Employer-Sponsored Vanpool |
| Transportation | T-14* | Provide Electric Vehicle Charging Infrastructure |
| Transportation | T-31-A* | Locate Project in Area with High Destination Accessibility |
| Energy | E-1 | Buildings Exceed 2019 Title 24 Building Envelope Energy Efficiency Standards |
| Energy | E-2 | Require Energy Efficient Appliances |
| Area Sources | LL-1 | Replace Gas Powered Landscape Equipment with Zero-Emission Landscape Equipment |
| Area Sources | AS-2 | Use Low-VOC Paints |

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit. | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 23.4 | 103 | 186 | 292 | 0.88 | 5.44 | 91.9 | 93.2 | 5.09 | 22.0 | 23.3 | — | 116,437 | 116,437 | 5.52 | 10.9 | 120 | 118,191 |
| Mit. | 17.9 | 22.8 | 83.4 | 254 | 0.64 | 1.28 | 91.9 | 92.5 | 1.28 | 22.0 | 22.6 | — | 108,095 | 108,095 | 4.45 | 10.7 | 120 | 109,821 |
| % Reduced | 23% | 78% | 55% | 13% | 28% | 76% | — | 1% | 75% | — | 3% | — | 7% | 7% | 19% | 2% | — | 7% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 24.7 | 122 | 189 | 297 | 0.91 | 5.44 | 108 | 109 | 5.09 | 25.8 | 27.0 | — | 125,278 | 125,278 | 5.52 | 10.9 | 3.64 | 126,855 |
| Mit. | 20.1 | 38.2 | 86.4 | 255 | 0.66 | 1.28 | 108 | 109 | 1.28 | 25.8 | 26.4 | — | 116,402 | 116,402 | 4.45 | 10.7 | 3.64 | 117,948 |
| % Reduced | 19% | 69% | 54% | 14% | 27% | 76% | — | 1% | 75% | — | 2% | — | 7% | 7% | 19% | 2% | — | 7% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 15.6 | 34.1 | 128 | 193 | 0.59 | 3.67 | 64.8 | 65.8 | 3.43 | 15.5 | 16.4 | — | 81,422 | 81,422 | 3.61 | 7.28 | 37.1 | 82,629 |
| Mit. | 12.6 | 11.2 | 58.2 | 166 | 0.44 | 0.84 | 64.8 | 65.2 | 0.84 | 15.5 | 15.9 | — | 75,464 | 75,464 | 2.94 | 7.15 | 37.1 | 76,650 |
| % Reduced | 19% | 67% | 55% | 14% | 26% | 77% | — | 1% | 75% | — | 3% | — | 7% | 7% | 18% | 2% | — | 7% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 2.84 | 6.23 | 23.4 | 35.3 | 0.11 | 0.67 | 11.8 | 12.0 | 0.63 | 2.83 | 3.00 | — | 13,480 | 13,480 | 0.60 | 1.21 | 6.14 | 13,680 |
| Mit. | 2.29 | 2.04 | 10.6 | 30.4 | 0.08 | 0.15 | 11.8 | 11.9 | 0.15 | 2.83 | 2.91 | — | 12,494 | 12,494 | 0.49 | 1.18 | 6.14 | 12,690 |
| % Reduced | 19% | 67% | 55% | 14% | 26% | 77% | — | 1% | 75% | — | 3% | — | 7% | 7% | 18% | 2% | — | 7% |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 23.4 | 16.6 | 186 | 190 | 0.88 | 5.44 | 28.1 | 33.5 | 5.09 | 8.34 | 13.4 | — | 108,595 | 108,595 | 5.52 | 10.9 | 85.8 | 112,080 |
| 2034 | 4.37 | 3.82 | 35.3 | 63.0 | 0.08 | 1.06 | 1.57 | 2.63 | 0.98 | 0.37 | 1.34 | — | 10,447 | 10,447 | 0.38 | 0.08 | 1.99 | 10,483 |
| 2035 | 22.0 | 19.3 | 83.9 | 292 | 0.44 | 1.38 | 91.9 | 93.2 | 1.29 | 22.0 | 23.3 | — | 116,437 | 116,437 | 2.51 | 5.27 | 120 | 118,191 |
| 2036 | 3.29 | 103 | 6.50 | 44.9 | 0.01 | 0.03 | 16.1 | 16.1 | 0.03 | 3.77 | 3.79 | — | 14,687 | 14,687 | 0.14 | 0.09 | 15.1 | 14,732 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 23.3 | 16.5 | 189 | 190 | 0.91 | 5.44 | 36.0 | 40.4 | 5.09 | 8.34 | 13.4 | — | 108,540 | 108,540 | 5.52 | 10.9 | 2.24 | 111,941 |
| 2034 | 22.8 | 19.5 | 181 | 272 | 0.91 | 5.11 | 91.9 | 93.3 | 4.78 | 22.0 | 23.4 | — | 114,986 | 114,986 | 5.50 | 10.9 | 3.64 | 116,627 |
| 2035 | 21.6 | 19.0 | 85.7 | 264 | 0.44 | 1.38 | 91.9 | 93.2 | 1.29 | 22.0 | 23.3 | — | 113,101 | 113,101 | 2.64 | 5.27 | 3.11 | 114,741 |
| 2036 | 24.7 | 122 | 89.9 | 297 | 0.45 | 1.34 | 108 | 109 | 1.26 | 25.8 | 27.0 | — | 125,278 | 125,278 | 2.65 | 5.06 | 3.05 | 126,855 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 15.6 | 11.0 | 128 | 123 | 0.59 | 3.67 | 20.7 | 24.4 | 3.43 | 5.76 | 9.20 | — | 70,508 | 70,508 | 3.61 | 7.28 | 24.8 | 72,792 |
| 2034 | 6.36 | 5.33 | 40.4 | 78.4 | 0.15 | 1.05 | 13.3 | 14.4 | 0.97 | 3.29 | 4.27 | — | 25,866 | 25,866 | 0.85 | 1.34 | 9.69 | 26,296 |
| 2035 | 15.5 | 13.6 | 61.2 | 193 | 0.32 | 0.99 | 64.8 | 65.8 | 0.92 | 15.5 | 16.4 | — | 81,422 | 81,422 | 1.89 | 3.77 | 37.1 | 82,629 |
| 2036 | 4.80 | 34.1 | 16.8 | 59.3 | 0.08 | 0.24 | 20.9 | 21.1 | 0.23 | 4.98 | 5.21 | — | 24,211 | 24,211 | 0.49 | 0.91 | 9.84 | 24,505 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 2.84 | 2.01 | 23.4 | 22.5 | 0.11 | 0.67 | 3.78 | 4.45 | 0.63 | 1.05 | 1.68 | — | 11,673 | 11,673 | 0.60 | 1.21 | 4.11 | 12,052 |
| 2034 | 1.16 | 0.97 | 7.37 | 14.3 | 0.03 | 0.19 | 2.44 | 2.63 | 0.18 | 0.60 | 0.78 | — | 4,282 | 4,282 | 0.14 | 0.22 | 1.60 | 4,354 |
| 2035 | 2.83 | 2.48 | 11.2 | 35.3 | 0.06 | 0.18 | 11.8 | 12.0 | 0.17 | 2.83 | 3.00 | — | 13,480 | 13,480 | 0.31 | 0.62 | 6.14 | 13,680 |
| 2036 | 0.88 | 6.23 | 3.06 | 10.8 | 0.01 | 0.04 | 3.81 | 3.86 | 0.04 | 0.91 | 0.95 | — | 4,008 | 4,008 | 0.08 | 0.15 | 1.63 | 4,057 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 6.81 | 2.85 | 83.4 | 110 | 0.64 | 1.28 | 28.1 | 29.4 | 1.28 | 8.34 | 9.62 | — | 82,210 | 82,210 | 4.45 | 10.7 | 85.8 | 85,605 |
| 2034 | 0.59 | 0.69 | 4.06 | 25.3 | 0.03 | 0.06 | 1.57 | 1.62 | 0.06 | 0.37 | 0.42 | — | 4,405 | 4,405 | 0.13 | 0.03 | 1.99 | 4,420 |
| 2035 | 17.9 | 15.9 | 53.5 | 254 | 0.37 | 0.61 | 91.9 | 92.5 | 0.59 | 22.0 | 22.6 | — | 108,095 | 108,095 | 2.17 | 5.20 | 120 | 109,821 |
| 2036 | 2.68 | 22.8 | 3.28 | 40.2 | < 0.005 | < 0.005 | 16.1 | 16.1 | < 0.005 | 3.77 | 3.77 | — | 14,153 | 14,153 | 0.12 | 0.08 | 15.1 | 14,196 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 6.71 | 2.75 | 86.4 | 109 | 0.66 | 1.28 | 36.0 | 37.1 | 1.28 | 8.34 | 9.62 | — | 82,155 | 82,155 | 4.45 | 10.7 | 2.24 | 85,466 |
| 2034 | 18.0 | 16.0 | 83.6 | 234 | 0.66 | 1.28 | 91.9 | 92.5 | 1.28 | 22.0 | 22.6 | — | 106,644 | 106,644 | 4.43 | 10.7 | 3.64 | 108,256 |
| 2035 | 17.6 | 15.6 | 55.3 | 226 | 0.37 | 0.61 | 91.9 | 92.5 | 0.59 | 22.0 | 22.6 | — | 104,759 | 104,759 | 2.31 | 5.20 | 3.11 | 106,371 |
| 2036 | 20.1 | 38.2 | 57.5 | 255 | 0.37 | 0.61 | 108 | 109 | 0.59 | 25.8 | 26.4 | — | 116,402 | 116,402 | 2.29 | 4.99 | 3.05 | 117,948 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 4.47 | 1.82 | 58.2 | 69.4 | 0.44 | 0.84 | 20.7 | 21.6 | 0.84 | 5.76 | 6.61 | — | 54,145 | 54,145 | 2.94 | 7.15 | 24.8 | 56,373 |
| 2034 | 2.85 | 2.44 | 14.0 | 48.8 | 0.10 | 0.18 | 13.3 | 13.5 | 0.18 | 3.29 | 3.47 | — | 20,042 | 20,042 | 0.62 | 1.29 | 9.69 | 20,451 |
| 2035 | 12.6 | 11.2 | 39.4 | 166 | 0.26 | 0.43 | 64.8 | 65.2 | 0.42 | 15.5 | 15.9 | — | 75,464 | 75,464 | 1.65 | 3.72 | 37.1 | 76,650 |
| 2036 | 3.91 | 9.56 | 10.6 | 51.2 | 0.07 | 0.11 | 20.9 | 21.0 | 0.11 | 4.98 | 5.09 | — | 22,566 | 22,566 | 0.42 | 0.90 | 9.84 | 22,854 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2033 | 0.82 | 0.33 | 10.6 | 12.7 | 0.08 | 0.15 | 3.78 | 3.93 | 0.15 | 1.05 | 1.21 | — | 8,964 | 8,964 | 0.49 | 1.18 | 4.11 | 9,333 |
| 2034 | 0.52 | 0.44 | 2.55 | 8.90 | 0.02 | 0.03 | 2.44 | 2.47 | 0.03 | 0.60 | 0.63 | — | 3,318 | 3,318 | 0.10 | 0.21 | 1.60 | 3,386 |
| 2035 | 2.29 | 2.04 | 7.20 | 30.4 | 0.05 | 0.08 | 11.8 | 11.9 | 0.08 | 2.83 | 2.91 | — | 12,494 | 12,494 | 0.27 | 0.62 | 6.14 | 12,690 |
| 2036 | 0.71 | 1.75 | 1.93 | 9.35 | 0.01 | 0.02 | 3.81 | 3.83 | 0.02 | 0.91 | 0.93 | — | 3,736 | 3,736 | 0.07 | 0.15 | 1.63 | 3,784 |

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. | 39.0 | 71.6 | 33.6 | 288 | 0.55 | 2.01 | 17.5 | 19.5 | 2.03 | 3.10 | 5.13 | 740 | 76,732 | 77,472 | 79.3 | 2.01 | 59.9 | 80,113 |
| Mit. | 17.3 | 51.5 | 27.0 | 114 | 0.42 | 1.67 | 12.6 | 14.3 | 1.67 | 2.23 | 3.90 | 740 | 61,357 | 62,097 | 78.5 | 1.57 | 46.6 | 64,574 |
| % Reduced | 56% | 28% | 20% | 60% | 25% | 17% | 28% | 27% | 18% | 28% | 24% | — | 20% | 20% | 1% | 22% | 22% | 19% |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 22.9 | 56.5 | 33.3 | 146 | 0.53 | 1.92 | 17.5 | 19.4 | 1.91 | 3.10 | 5.01 | 740 | 74,706 | 75,445 | 79.3 | 2.08 | 13.4 | 78,061 |
| Mit. | 17.2 | 51.5 | 27.7 | 107 | 0.41 | 1.67 | 12.6 | 14.3 | 1.67 | 2.23 | 3.90 | 740 | 60,148 | 60,888 | 78.5 | 1.62 | 13.0 | 63,348 |
| % Reduced | 25% | 9% | 17% | 26% | 24% | 13% | 28% | 26% | 13% | 28% | 22% | — | 19% | 19% | 1% | 22% | 3% | 19% |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 33.7 | 66.6 | 34.2 | 239 | 0.54 | 1.98 | 17.4 | 19.4 | 1.99 | 3.08 | 5.07 | 740 | 75,198 | 75,937 | 79.3 | 2.08 | 32.6 | 78,572 |
| Mit. | 17.1 | 51.3 | 27.7 | 109 | 0.41 | 1.67 | 12.5 | 14.2 | 1.66 | 2.22 | 3.88 | 740 | 60,272 | 61,011 | 78.5 | 1.62 | 26.9 | 63,484 |
| % Reduced | 49% | 23% | 19% | 54% | 24% | 16% | 28% | 27% | 16% | 28% | 23% | — | 20% | 20% | 1% | 22% | 18% | 19% |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 6.15 | 12.2 | 6.24 | 43.6 | 0.10 | 0.36 | 3.18 | 3.54 | 0.36 | 0.56 | 0.93 | 122 | 12,450 | 12,572 | 13.1 | 0.34 | 5.40 | 13,008 |
| Mit. | 3.12 | 9.36 | 5.06 | 19.9 | 0.07 | 0.31 | 2.29 | 2.59 | 0.30 | 0.40 | 0.71 | 122 | 9,979 | 10,101 | 13.0 | 0.27 | 4.45 | 10,510 |
| % Reduced | 49% | 23% | 19% | 54% | 24% | 16% | 28% | 27% | 16% | 28% | 23% | — | 20% | 20% | 1% | 22% | 18% | 19% |

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 | 20.4 | 18.7 | 10.9 | 146 | 0.41 | 0.18 | 17.5 | 17.7 | 0.17 | 3.10 | 3.27 | — | 41,783 | 41,783 | 1.71 | 1.57 | 47.8 | 42,341 |
| Area | 16.1 | 51.6 | 1.18 | 133 | 0.01 | 0.09 | — | 0.09 | 0.12 | — | 0.12 | 0.00 | 421 | 421 | 0.02 | < 0.005 | — | 422 |
| Energy | 2.52 | 1.26 | 21.5 | 9.25 | 0.14 | 1.74 | — | 1.74 | 1.74 | — | 1.74 | — | 34,239 | 34,239 | 3.29 | 0.16 | — | 34,368 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 39.0 | 71.6 | 33.6 | 288 | 0.55 | 2.01 | 17.5 | 19.5 | 2.03 | 3.10 | 5.13 | 740 | 76,732 | 77,472 | 79.3 | 2.01 | 59.9 | 80,113 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 20.3 | 18.7 | 11.8 | 136 | 0.39 | 0.18 | 17.5 | 17.7 | 0.17 | 3.10 | 3.27 | — | 40,177 | 40,177 | 1.77 | 1.64 | 1.24 | 40,711 |
| Area | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 2.52 | 1.26 | 21.5 | 9.25 | 0.14 | 1.74 | — | 1.74 | 1.74 | — | 1.74 | — | 34,239 | 34,239 | 3.29 | 0.16 | — | 34,368 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 22.9 | 56.5 | 33.3 | 146 | 0.53 | 1.92 | 17.5 | 19.4 | 1.91 | 3.10 | 5.01 | 740 | 74,706 | 75,445 | 79.3 | 2.08 | 13.4 | 78,061 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 20.1 | 18.5 | 11.8 | 139 | 0.40 | 0.18 | 17.4 | 17.6 | 0.17 | 3.08 | 3.25 | — | 40,381 | 40,381 | 1.75 | 1.64 | 20.5 | 40,933 |
| Area | 11.0 | 46.8 | 0.81 | 91.0 | < 0.005 | 0.06 | — | 0.06 | 0.08 | — | 0.08 | 0.00 | 288 | 288 | 0.01 | < 0.005 | — | 289 |
| Energy | 2.52 | 1.26 | 21.5 | 9.25 | 0.14 | 1.74 | — | 1.74 | 1.74 | — | 1.74 | — | 34,239 | 34,239 | 3.29 | 0.16 | — | 34,368 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|---------|------|------|------|------|------|------|------|--------|--------|---------|---------|------|--------|
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 33.7 | 66.6 | 34.2 | 239 | 0.54 | 1.98 | 17.4 | 19.4 | 1.99 | 3.08 | 5.07 | 740 | 75,198 | 75,937 | 79.3 | 2.08 | 32.6 | 78,572 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 3.67 | 3.37 | 2.16 | 25.3 | 0.07 | 0.03 | 3.18 | 3.21 | 0.03 | 0.56 | 0.59 | — | 6,685 | 6,685 | 0.29 | 0.27 | 3.39 | 6,777 |
| Area | 2.01 | 8.55 | 0.15 | 16.6 | < 0.005 | 0.01 | — | 0.01 | 0.02 | — | 0.02 | 0.00 | 47.7 | 47.7 | < 0.005 | < 0.005 | — | 47.9 |
| Energy | 0.46 | 0.23 | 3.93 | 1.69 | 0.03 | 0.32 | — | 0.32 | 0.32 | — | 0.32 | — | 5,669 | 5,669 | 0.55 | 0.03 | — | 5,690 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 18.9 | 48.0 | 66.9 | 1.94 | 0.05 | — | 129 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.3 | 0.00 | — | 362 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 2.01 |
| Total | 6.15 | 12.2 | 6.24 | 43.6 | 0.10 | 0.36 | 3.18 | 3.54 | 0.36 | 0.56 | 0.93 | 122 | 12,450 | 12,572 | 13.1 | 0.34 | 5.40 | 13,008 |

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 | 15.0 | 13.8 | 7.93 | 106 | 0.30 | 0.13 | 12.6 | 12.8 | 0.12 | 2.23 | 2.36 | — | 30,169 | 30,169 | 1.25 | 1.14 | 34.5 | 30,575 |
| Area | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 2.23 | 1.12 | 19.1 | 8.22 | 0.12 | 1.54 | — | 1.54 | 1.54 | — | 1.54 | — | 30,898 | 30,898 | 2.99 | 0.15 | — | 31,017 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 17.3 | 51.5 | 27.0 | 114 | 0.42 | 1.67 | 12.6 | 14.3 | 1.67 | 2.23 | 3.90 | 740 | 61,357 | 62,097 | 78.5 | 1.57 | 46.6 | 64,574 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 15.0 | 13.8 | 8.62 | 99.2 | 0.28 | 0.13 | 12.6 | 12.8 | 0.12 | 2.23 | 2.36 | — | 29,011 | 29,011 | 1.29 | 1.19 | 0.89 | 29,400 |

| | | | | | | | | | | | | | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|
| Area | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 2.23 | 1.12 | 19.1 | 8.22 | 0.12 | 1.54 | — | 1.54 | 1.54 | — | 1.54 | — | 30,847 | 30,847 | 2.98 | 0.15 | — | 30,966 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 17.2 | 51.5 | 27.7 | 107 | 0.41 | 1.67 | 12.6 | 14.3 | 1.67 | 2.23 | 3.90 | 740 | 60,148 | 60,888 | 78.5 | 1.62 | 13.0 | 63,348 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 14.9 | 13.7 | 8.62 | 101 | 0.29 | 0.13 | 12.5 | 12.7 | 0.12 | 2.22 | 2.34 | — | 29,100 | 29,100 | 1.28 | 1.19 | 14.8 | 29,501 |
| Area | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 2.23 | 1.12 | 19.1 | 8.22 | 0.12 | 1.54 | — | 1.54 | 1.54 | — | 1.54 | — | 30,882 | 30,882 | 2.99 | 0.15 | — | 31,001 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Total | 17.1 | 51.3 | 27.7 | 109 | 0.41 | 1.67 | 12.5 | 14.2 | 1.66 | 2.22 | 3.88 | 740 | 60,272 | 61,011 | 78.5 | 1.62 | 26.9 | 63,484 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 2.71 | 2.49 | 1.57 | 18.4 | 0.05 | 0.02 | 2.29 | 2.31 | 0.02 | 0.40 | 0.43 | — | 4,818 | 4,818 | 0.21 | 0.20 | 2.44 | 4,884 |
| Area | 0.00 | 6.67 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Energy | 0.41 | 0.20 | 3.49 | 1.50 | 0.02 | 0.28 | — | 0.28 | 0.28 | — | 0.28 | — | 5,113 | 5,113 | 0.49 | 0.02 | — | 5,133 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 18.9 | 48.0 | 66.9 | 1.94 | 0.05 | — | 129 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.3 | 0.00 | — | 362 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 2.01 |
| Total | 3.12 | 9.36 | 5.06 | 19.9 | 0.07 | 0.31 | 2.29 | 2.59 | 0.30 | 0.40 | 0.71 | 122 | 9,979 | 10,101 | 13.0 | 0.27 | 4.45 | 10,510 |

3. Construction Emissions Details

3.1. Demolition (2033) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 13.3 | 11.2 | 93.0 | 95.6 | 0.20 | 3.43 | — | 3.43 | 3.16 | — | 3.16 | — | 20,559 | 20,559 | 0.83 | 0.17 | — | 20,630 |
| Demolition | — | — | — | — | — | — | 14.9 | 14.9 | — | 2.26 | 2.26 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.33 | 1.96 | 16.3 | 16.8 | 0.03 | 0.60 | — | 0.60 | 0.55 | — | 0.55 | — | 3,605 | 3,605 | 0.15 | 0.03 | — | 3,617 |
| Demolition | — | — | — | — | — | — | 2.62 | 2.62 | — | 0.40 | 0.40 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.43 | 0.36 | 2.98 | 3.06 | 0.01 | 0.11 | — | 0.11 | 0.10 | — | 0.10 | — | 597 | 597 | 0.02 | < 0.005 | — | 599 |
| Demolition | — | — | — | — | — | — | 0.48 | 0.48 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.28 | 0.27 | 0.25 | 3.67 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,332 | 1,332 | 0.01 | 0.01 | 0.06 | 1,335 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 4.67 | 1.02 | 71.2 | 31.0 | 0.50 | 0.95 | 19.5 | 20.5 | 0.95 | 5.48 | 6.43 | — | 61,945 | 61,945 | 3.59 | 9.78 | 1.99 | 64,952 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.05 | 0.05 | 0.04 | 0.67 | 0.00 | 0.00 | 0.27 | 0.27 | 0.00 | 0.06 | 0.06 | — | 237 | 237 | < 0.005 | < 0.005 | 0.17 | 237 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.83 | 0.19 | 12.6 | 5.40 | 0.09 | 0.17 | 3.39 | 3.56 | 0.17 | 0.95 | 1.12 | — | 10,858 | 10,858 | 0.63 | 1.72 | 5.80 | 11,391 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.12 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 39.2 | 39.2 | < 0.005 | < 0.005 | 0.03 | 39.3 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.15 | 0.03 | 2.29 | 0.98 | 0.02 | 0.03 | 0.62 | 0.65 | 0.03 | 0.17 | 0.20 | — | 1,798 | 1,798 | 0.10 | 0.28 | 0.96 | 1,886 |

3.2. Demolition (2033) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.72 | 0.72 | 9.01 | 36.3 | 0.07 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 6,853 | 6,853 | 0.28 | 0.06 | — | 6,877 |
| Demolition | — | — | — | — | — | — | 14.9 | 14.9 | — | 2.26 | 2.26 | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|------|--------|--------|---------|---------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.13 | 0.13 | 1.58 | 6.37 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 1,202 | 1,202 | 0.05 | 0.01 | — | 1,206 | |
| Demolition | — | — | — | — | — | — | 2.62 | 2.62 | — | 0.40 | 0.40 | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.02 | 0.02 | 0.29 | 1.16 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 199 | 199 | 0.01 | < 0.005 | — | 200 | |
| Demolition | — | — | — | — | — | — | 0.48 | 0.48 | — | 0.07 | 0.07 | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.28 | 0.27 | 0.25 | 3.67 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,332 | 1,332 | 0.01 | 0.01 | 0.06 | 1,335 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 4.67 | 1.02 | 71.2 | 31.0 | 0.50 | 0.95 | 19.5 | 20.5 | 0.95 | 5.48 | 6.43 | — | 61,945 | 61,945 | 3.59 | 9.78 | 1.99 | 64,952 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.05 | 0.05 | 0.04 | 0.67 | 0.00 | 0.00 | 0.27 | 0.27 | 0.00 | 0.06 | 0.06 | — | 237 | 237 | < 0.005 | < 0.005 | 0.17 | 237 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.83 | 0.19 | 12.6 | 5.40 | 0.09 | 0.17 | 3.39 | 3.56 | 0.17 | 0.95 | 1.12 | — | 10,858 | 10,858 | 0.63 | 1.72 | 5.80 | 11,391 | |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.12 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 39.2 | 39.2 | < 0.005 | < 0.005 | 0.03 | 39.3 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.15 | 0.03 | 2.29 | 0.98 | 0.02 | 0.03 | 0.62 | 0.65 | 0.03 | 0.17 | 0.20 | — | 1,798 | 1,798 | 0.10 | 0.28 | 0.96 | 1,886 |

3.3. Site Preparation (2033) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 18.8 | 15.8 | 127 | 146 | 0.29 | 5.17 | — | 5.17 | 4.76 | — | 4.76 | — | 31,776 | 31,776 | 1.29 | 0.26 | — | 31,885 |
| Dust From Material Movement | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.57 | 0.48 | 3.83 | 4.41 | 0.01 | 0.16 | — | 0.16 | 0.14 | — | 0.14 | — | 958 | 958 | 0.04 | 0.01 | — | 961 |
| Dust From Material Movement | — | — | — | — | — | — | 0.31 | 0.31 | — | 0.16 | 0.16 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|------|---------|------|------|------|------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.10 | 0.09 | 0.70 | 0.80 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 159 | 159 | 0.01 | < 0.005 | — | 159 |
| Dust From Material Movement | — | — | — | — | — | — | 0.06 | 0.06 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.32 | 0.32 | 0.23 | 4.96 | 0.00 | 0.00 | 1.83 | 1.83 | 0.00 | 0.43 | 0.43 | — | 1,633 | 1,633 | 0.02 | 0.01 | 2.68 | 1,639 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 47.5 | 47.5 | < 0.005 | < 0.005 | 0.03 | 47.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.86 | 7.86 | < 0.005 | < 0.005 | 0.01 | 7.88 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.4. Site Preparation (2033) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|------------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|---------|---------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.00 | 1.00 | 5.18 | 56.6 | 0.10 | 0.20 | — | 0.20 | 0.20 | — | 0.20 | — | 10,592 | 10,592 | 0.43 | 0.09 | — | 10,628 |
| Dust From Material Movement: | — | — | — | — | — | — | 10.2 | 10.2 | — | 5.25 | 5.25 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.16 | 1.71 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 319 | 319 | 0.01 | < 0.005 | — | 320 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.31 | 0.31 | — | 0.16 | 0.16 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.03 | 0.31 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 52.8 | 52.8 | < 0.005 | < 0.005 | — | 53.0 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.06 | 0.06 | — | 0.03 | 0.03 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|------|------|------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.32 | 0.32 | 0.23 | 4.96 | 0.00 | 0.00 | 1.83 | 1.83 | 0.00 | 0.43 | 0.43 | — | 1,633 | 1,633 | 0.02 | 0.01 | 2.68 | 1,639 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.14 | 0.00 | 0.00 | 0.05 | 0.05 | 0.00 | 0.01 | 0.01 | — | 47.5 | 47.5 | < 0.005 | < 0.005 | 0.03 | 47.6 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.86 | 7.86 | < 0.005 | < 0.005 | 0.01 | 7.88 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.5. Grading (2033) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|-----|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 17.8 | 15.0 | 111 | 151 | 0.37 | 4.41 | — | 4.41 | 4.05 | — | 4.05 | — | 39,577 | 39,577 | 1.61 | 0.32 | — | 39,713 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Dust From Material Movement: | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 17.8 | 15.0 | 111 | 151 | 0.37 | 4.41 | — | 4.41 | 4.05 | — | 4.05 | — | 39,577 | 39,577 | 1.61 | 0.32 | — | 39,713 |
| Dust From Material Movement: | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 9.01 | 7.57 | 56.1 | 76.4 | 0.18 | 2.22 | — | 2.22 | 2.05 | — | 2.05 | — | 19,982 | 19,982 | 0.81 | 0.16 | — | 20,051 |
| Dust From Material Movement: | — | — | — | — | — | — | 2.43 | 2.43 | — | 0.96 | 0.96 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.64 | 1.38 | 10.2 | 13.9 | 0.03 | 0.41 | — | 0.41 | 0.37 | — | 0.37 | — | 3,308 | 3,308 | 0.13 | 0.03 | — | 3,320 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.44 | 0.44 | — | 0.18 | 0.18 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.37 | 0.36 | 0.27 | 5.67 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,866 | 1,866 | 0.02 | 0.01 | 3.06 | 1,873 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 5.16 | 1.21 | 74.3 | 33.3 | 0.52 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 67,152 | 67,152 | 3.90 | 10.6 | 82.7 | 70,495 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.37 | 0.36 | 0.34 | 4.89 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,776 | 1,776 | 0.02 | 0.01 | 0.08 | 1,780 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 5.06 | 1.11 | 77.2 | 33.6 | 0.54 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 67,186 | 67,186 | 3.90 | 10.6 | 2.16 | 70,448 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.19 | 0.18 | 0.17 | 2.59 | 0.00 | 0.00 | 1.04 | 1.04 | 0.00 | 0.24 | 0.24 | — | 909 | 909 | 0.01 | 0.01 | 0.67 | 912 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 2.59 | 0.59 | 39.3 | 16.9 | 0.27 | 0.52 | 10.6 | 11.1 | 0.52 | 2.98 | 3.50 | — | 33,912 | 33,912 | 1.97 | 5.36 | 18.1 | 35,576 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.03 | 0.47 | 0.00 | 0.00 | 0.19 | 0.19 | 0.00 | 0.04 | 0.04 | — | 151 | 151 | < 0.005 | < 0.005 | 0.11 | 151 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.47 | 0.11 | 7.16 | 3.08 | 0.05 | 0.10 | 1.93 | 2.03 | 0.10 | 0.54 | 0.64 | — | 5,615 | 5,615 | 0.33 | 0.89 | 3.00 | 5,890 |

3.6. Grading (2033) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Off-Road Equipment | 1.28 | 1.28 | 8.85 | 70.7 | 0.12 | 0.25 | — | 0.25 | 0.25 | — | 0.25 | — | 13,192 | 13,192 | 0.54 | 0.11 | — | 13,238 |
| Dust From Material Movement | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.28 | 1.28 | 8.85 | 70.7 | 0.12 | 0.25 | — | 0.25 | 0.25 | — | 0.25 | — | 13,192 | 13,192 | 0.54 | 0.11 | — | 13,238 |
| Dust From Material Movement | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.65 | 0.65 | 4.47 | 35.7 | 0.06 | 0.13 | — | 0.13 | 0.13 | — | 0.13 | — | 6,661 | 6,661 | 0.27 | 0.05 | — | 6,684 |
| Dust From Material Movement | — | — | — | — | — | — | 2.43 | 2.43 | — | 0.96 | 0.96 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.12 | 0.82 | 6.51 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 1,103 | 1,103 | 0.04 | 0.01 | — | 1,107 |
| Dust From Material Movement | — | — | — | — | — | — | 0.44 | 0.44 | — | 0.18 | 0.18 | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|---------|---------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.37 | 0.36 | 0.27 | 5.67 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,866 | 1,866 | 0.02 | 0.01 | 3.06 | 1,873 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 5.16 | 1.21 | 74.3 | 33.3 | 0.52 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 67,152 | 67,152 | 3.90 | 10.6 | 82.7 | 70,495 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.37 | 0.36 | 0.34 | 4.89 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,776 | 1,776 | 0.02 | 0.01 | 0.08 | 1,780 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 5.06 | 1.11 | 77.2 | 33.6 | 0.54 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 67,186 | 67,186 | 3.90 | 10.6 | 2.16 | 70,448 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.19 | 0.18 | 0.17 | 2.59 | 0.00 | 0.00 | 1.04 | 1.04 | 0.00 | 0.24 | 0.24 | — | 909 | 909 | 0.01 | 0.01 | 0.67 | 912 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 2.59 | 0.59 | 39.3 | 16.9 | 0.27 | 0.52 | 10.6 | 11.1 | 0.52 | 2.98 | 3.50 | — | 33,912 | 33,912 | 1.97 | 5.36 | 18.1 | 35,576 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.03 | 0.03 | 0.03 | 0.47 | 0.00 | 0.00 | 0.19 | 0.19 | 0.00 | 0.04 | 0.04 | — | 151 | 151 | < 0.005 | < 0.005 | 0.11 | 151 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.47 | 0.11 | 7.16 | 3.08 | 0.05 | 0.10 | 1.93 | 2.03 | 0.10 | 0.54 | 0.64 | — | 5,615 | 5,615 | 0.33 | 0.89 | 3.00 | 5,890 | |

3.7. Grading (2034) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 17.4 | 14.6 | 107 | 150 | 0.37 | 4.07 | — | 4.07 | 3.75 | — | 3.75 | — | 39,577 | 39,577 | 1.61 | 0.32 | — | 39,713 |
| Dust From Material Movement | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.06 | 0.89 | 6.46 | 9.12 | 0.02 | 0.25 | — | 0.25 | 0.23 | — | 0.23 | — | 2,401 | 2,401 | 0.10 | 0.02 | — | 2,409 |
| Dust From Material Movement | — | — | — | — | — | — | 0.29 | 0.29 | — | 0.12 | 0.12 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.18 | 1.67 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 398 | 398 | 0.02 | < 0.005 | — | 399 |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.35 | 0.27 | 4.65 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,756 | 1,756 | 0.02 | 0.01 | 0.07 | 1,760 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 5.06 | 1.11 | 74.4 | 32.6 | 0.54 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 65,425 | 65,425 | 3.87 | 10.6 | 1.91 | 68,686 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.30 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | < 0.005 | 0.07 | 108 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.31 | 0.07 | 4.55 | 1.97 | 0.03 | 0.06 | 1.27 | 1.34 | 0.06 | 0.36 | 0.42 | — | 3,968 | 3,968 | 0.23 | 0.64 | 1.92 | 4,167 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 0.01 | 17.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.06 | 0.01 | 0.83 | 0.36 | 0.01 | 0.01 | 0.23 | 0.24 | 0.01 | 0.07 | 0.08 | — | 657 | 657 | 0.04 | 0.11 | 0.32 | 690 |

3.8. Grading (2034) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.28 | 1.28 | 8.85 | 70.7 | 0.12 | 0.25 | — | 0.25 | 0.25 | — | 0.25 | — | 13,192 | 13,192 | 0.54 | 0.11 | — | 13,238 |

| | | | | | | | | | | | | | | | | | | |
|------------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|------|---------|------|--------|
| Dust From Material Movement: | — | — | — | — | — | — | 4.82 | 4.82 | — | 1.90 | 1.90 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.08 | 0.08 | 0.54 | 4.29 | 0.01 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 800 | 800 | 0.03 | 0.01 | — | 803 |
| Dust From Material Movement: | — | — | — | — | — | — | 0.29 | 0.29 | — | 0.12 | 0.12 | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.10 | 0.78 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 133 | 133 | 0.01 | < 0.005 | — | 133 |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.36 | 0.35 | 0.27 | 4.65 | 0.00 | 0.00 | 2.09 | 2.09 | 0.00 | 0.49 | 0.49 | — | 1,756 | 1,756 | 0.02 | 0.01 | 0.07 | 1,760 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 5.06 | 1.11 | 74.4 | 32.6 | 0.54 | 1.03 | 21.2 | 22.2 | 1.03 | 5.94 | 6.98 | — | 65,425 | 65,425 | 3.87 | 10.6 | 1.91 | 68,686 |

| | | | | | | | | | | | | | | | | | | |
|---------------|---------|---------|---------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.02 | 0.02 | 0.02 | 0.30 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — | 108 | 108 | < 0.005 | < 0.005 | 0.07 | 108 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.31 | 0.07 | 4.55 | 1.97 | 0.03 | 0.06 | 1.27 | 1.34 | 0.06 | 0.36 | 0.42 | — | 3,968 | 3,968 | 0.23 | 0.64 | 1.92 | 4,167 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — | 17.9 | 17.9 | < 0.005 | < 0.005 | 0.01 | 17.9 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.06 | 0.01 | 0.83 | 0.36 | 0.01 | 0.01 | 0.23 | 0.24 | 0.01 | 0.07 | 0.08 | — | 657 | 657 | 0.04 | 0.11 | 0.32 | 690 |

3.9. Building Construction (2034) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.19 | 5.18 | 45.1 | 76.6 | 0.14 | 1.15 | — | 1.15 | 1.06 | — | 1.06 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.74 | 0.62 | 5.39 | 9.14 | 0.02 | 0.14 | — | 0.14 | 0.13 | — | 0.13 | — | 1,717 | 1,717 | 0.07 | 0.01 | — | 1,723 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Off-Road Equipment | 0.13 | 0.11 | 0.98 | 1.67 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | — | 284 | 284 | 0.01 | < 0.005 | — | 285 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.8 | 13.5 | 10.4 | 179 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 67,470 | 67,470 | 0.68 | 0.41 | 2.64 | 67,610 |
| Vendor | 2.22 | 0.81 | 32.5 | 16.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 33,135 | 33,135 | 1.38 | 4.75 | 1.00 | 34,586 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.63 | 1.59 | 1.22 | 22.4 | 0.00 | 0.00 | 9.47 | 9.47 | 0.00 | 2.22 | 2.22 | — | 8,164 | 8,164 | 0.08 | 0.05 | 5.26 | 8,185 |
| Vendor | 0.27 | 0.10 | 3.87 | 1.95 | 0.04 | 0.04 | 1.36 | 1.40 | 0.04 | 0.38 | 0.41 | — | 3,954 | 3,954 | 0.17 | 0.57 | 1.97 | 4,129 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.30 | 0.29 | 0.22 | 4.09 | 0.00 | 0.00 | 1.73 | 1.73 | 0.00 | 0.40 | 0.40 | — | 1,352 | 1,352 | 0.01 | 0.01 | 0.87 | 1,355 |
| Vendor | 0.05 | 0.02 | 0.71 | 0.36 | 0.01 | 0.01 | 0.25 | 0.25 | 0.01 | 0.07 | 0.08 | — | 655 | 655 | 0.03 | 0.09 | 0.33 | 684 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.10. Building Construction (2034) - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|---------|---------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.00 | 1.72 | 13.6 | 38.3 | 0.06 | 0.31 | — | 0.31 | 0.29 | — | 0.29 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.24 | 0.21 | 1.63 | 4.57 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 721 | 721 | 0.03 | 0.01 | — | 723 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 0.30 | 0.83 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 119 | 119 | < 0.005 | < 0.005 | — | 120 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.8 | 13.5 | 10.4 | 179 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 67,470 | 67,470 | 0.68 | 0.41 | 2.64 | 67,610 |
| Vendor | 2.22 | 0.81 | 32.5 | 16.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 33,135 | 33,135 | 1.38 | 4.75 | 1.00 | 34,586 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Worker | 1.63 | 1.59 | 1.22 | 22.4 | 0.00 | 0.00 | 9.47 | 9.47 | 0.00 | 2.22 | 2.22 | — | 8,164 | 8,164 | 0.08 | 0.05 | 5.26 | 8,185 |
| Vendor | 0.27 | 0.10 | 3.87 | 1.95 | 0.04 | 0.04 | 1.36 | 1.40 | 0.04 | 0.38 | 0.41 | — | 3,954 | 3,954 | 0.17 | 0.57 | 1.97 | 4,129 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.30 | 0.29 | 0.22 | 4.09 | 0.00 | 0.00 | 1.73 | 1.73 | 0.00 | 0.40 | 0.40 | — | 1,352 | 1,352 | 0.01 | 0.01 | 0.87 | 1,355 |
| Vendor | 0.05 | 0.02 | 0.71 | 0.36 | 0.01 | 0.01 | 0.25 | 0.25 | 0.01 | 0.07 | 0.08 | — | 655 | 655 | 0.03 | 0.09 | 0.33 | 684 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.11. Building Construction (2035) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.08 | 5.08 | 44.0 | 76.1 | 0.14 | 1.08 | — | 1.08 | 0.99 | — | 0.99 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 6.08 | 5.08 | 44.0 | 76.1 | 0.14 | 1.08 | — | 1.08 | 0.99 | — | 0.99 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.34 | 3.63 | 31.4 | 54.4 | 0.10 | 0.77 | — | 0.77 | 0.71 | — | 0.71 | — | 10,272 | 10,272 | 0.42 | 0.08 | — | 10,307 |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|--------|--------|------|------|------|--------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.79 | 0.66 | 5.74 | 9.92 | 0.02 | 0.14 | — | 0.14 | 0.13 | — | 0.13 | — | 1,701 | 1,701 | 0.07 | 0.01 | — | 1,707 | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.6 | 13.3 | 9.96 | 200 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 70,149 | 70,149 | 0.54 | 0.41 | 87.8 | 70,371 | |
| Vendor | 2.28 | 0.87 | 29.9 | 15.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 31,907 | 31,907 | 1.38 | 4.75 | 32.3 | 33,390 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.3 | 13.1 | 10.2 | 172 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 66,786 | 66,786 | 0.68 | 0.41 | 2.28 | 66,926 | |
| Vendor | 2.22 | 0.81 | 31.4 | 15.9 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 31,934 | 31,934 | 1.38 | 4.75 | 0.84 | 33,385 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.53 | 9.34 | 7.31 | 128 | 0.00 | 0.00 | 56.7 | 56.7 | 0.00 | 13.3 | 13.3 | — | 48,351 | 48,351 | 0.48 | 0.29 | 27.1 | 48,477 | |
| Vendor | 1.61 | 0.60 | 22.4 | 11.2 | 0.22 | 0.22 | 8.14 | 8.36 | 0.22 | 2.25 | 2.47 | — | 22,799 | 22,799 | 0.99 | 3.39 | 9.96 | 23,845 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.74 | 1.70 | 1.33 | 23.3 | 0.00 | 0.00 | 10.3 | 10.3 | 0.00 | 2.42 | 2.42 | — | 8,005 | 8,005 | 0.08 | 0.05 | 4.49 | 8,026 | |
| Vendor | 0.29 | 0.11 | 4.09 | 2.04 | 0.04 | 0.04 | 1.49 | 1.53 | 0.04 | 0.41 | 0.45 | — | 3,775 | 3,775 | 0.16 | 0.56 | 1.65 | 3,948 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.12. Building Construction (2035) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.99 | 1.71 | 13.6 | 38.3 | 0.06 | 0.31 | — | 0.31 | 0.29 | — | 0.29 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.99 | 1.71 | 13.6 | 38.3 | 0.06 | 0.31 | — | 0.31 | 0.29 | — | 0.29 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.42 | 1.22 | 9.72 | 27.3 | 0.05 | 0.22 | — | 0.22 | 0.21 | — | 0.21 | — | 4,314 | 4,314 | 0.17 | 0.03 | — | 4,328 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.26 | 0.22 | 1.77 | 4.99 | 0.01 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | — | 714 | 714 | 0.03 | 0.01 | — | 717 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.6 | 13.3 | 9.96 | 200 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 70,149 | 70,149 | 0.54 | 0.41 | 87.8 | 70,371 |
| Vendor | 2.28 | 0.87 | 29.9 | 15.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 31,907 | 31,907 | 1.38 | 4.75 | 32.3 | 33,390 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.3 | 13.1 | 10.2 | 172 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 66,786 | 66,786 | 0.68 | 0.41 | 2.28 | 66,926 |
| Vendor | 2.22 | 0.81 | 31.4 | 15.9 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 31,934 | 31,934 | 1.38 | 4.75 | 0.84 | 33,385 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 9.53 | 9.34 | 7.31 | 128 | 0.00 | 0.00 | 56.7 | 56.7 | 0.00 | 13.3 | 13.3 | — | 48,351 | 48,351 | 0.48 | 0.29 | 27.1 | 48,477 |
| Vendor | 1.61 | 0.60 | 22.4 | 11.2 | 0.22 | 0.22 | 8.14 | 8.36 | 0.22 | 2.25 | 2.47 | — | 22,799 | 22,799 | 0.99 | 3.39 | 9.96 | 23,845 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 1.74 | 1.70 | 1.33 | 23.3 | 0.00 | 0.00 | 10.3 | 10.3 | 0.00 | 2.42 | 2.42 | — | 8,005 | 8,005 | 0.08 | 0.05 | 4.49 | 8,026 |
| Vendor | 0.29 | 0.11 | 4.09 | 2.04 | 0.04 | 0.04 | 1.49 | 1.53 | 0.04 | 0.41 | 0.45 | — | 3,775 | 3,775 | 0.16 | 0.56 | 1.65 | 3,948 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.13. Building Construction (2036) - Unmitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 5.96 | 4.99 | 42.7 | 75.6 | 0.14 | 1.01 | — | 1.01 | 0.93 | — | 0.93 | — | 14,381 | 14,381 | 0.58 | 0.12 | — | 14,430 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.06 | 0.89 | 7.61 | 13.5 | 0.03 | 0.18 | — | 0.18 | 0.17 | — | 0.17 | — | 2,561 | 2,561 | 0.10 | 0.02 | — | 2,570 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.39 | 2.46 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 424 | 424 | 0.02 | < 0.005 | — | 425 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.2 | 12.9 | 10.2 | 166 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 66,100 | 66,100 | 0.54 | 0.41 | 1.96 | 66,237 |
| Vendor | 2.22 | 0.81 | 30.4 | 15.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 30,776 | 30,776 | 1.38 | 4.45 | 0.70 | 32,136 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.35 | 2.30 | 1.80 | 30.8 | 0.00 | 0.00 | 14.1 | 14.1 | 0.00 | 3.31 | 3.31 | — | 11,931 | 11,931 | 0.10 | 0.07 | 5.81 | 11,961 |
| Vendor | 0.40 | 0.15 | 5.40 | 2.73 | 0.05 | 0.05 | 2.03 | 2.08 | 0.05 | 0.56 | 0.62 | — | 5,478 | 5,478 | 0.25 | 0.79 | 2.08 | 5,722 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.43 | 0.42 | 0.33 | 5.62 | 0.00 | 0.00 | 2.58 | 2.58 | 0.00 | 0.60 | 0.60 | — | 1,975 | 1,975 | 0.02 | 0.01 | 0.96 | 1,980 |
| Vendor | 0.07 | 0.03 | 0.98 | 0.50 | 0.01 | 0.01 | 0.37 | 0.38 | 0.01 | 0.10 | 0.11 | — | 907 | 907 | 0.04 | 0.13 | 0.34 | 947 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.14. Building Construction (2036) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|---------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.99 | 1.71 | 13.6 | 38.2 | 0.06 | 0.30 | — | 0.30 | 0.28 | — | 0.28 | — | 6,039 | 6,039 | 0.24 | 0.05 | — | 6,060 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.30 | 2.42 | 6.81 | 0.01 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | — | 1,075 | 1,075 | 0.04 | 0.01 | — | 1,079 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.06 | 0.44 | 1.24 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 178 | 178 | 0.01 | < 0.005 | — | 179 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 13.2 | 12.9 | 10.2 | 166 | 0.00 | 0.00 | 80.3 | 80.3 | 0.00 | 18.8 | 18.8 | — | 66,100 | 66,100 | 0.54 | 0.41 | 1.96 | 66,237 |
| Vendor | 2.22 | 0.81 | 30.4 | 15.5 | 0.30 | 0.30 | 11.5 | 11.8 | 0.30 | 3.18 | 3.49 | — | 30,776 | 30,776 | 1.38 | 4.45 | 0.70 | 32,136 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.35 | 2.30 | 1.80 | 30.8 | 0.00 | 0.00 | 14.1 | 14.1 | 0.00 | 3.31 | 3.31 | — | 11,931 | 11,931 | 0.10 | 0.07 | 5.81 | 11,961 |
| Vendor | 0.40 | 0.15 | 5.40 | 2.73 | 0.05 | 0.05 | 2.03 | 2.08 | 0.05 | 0.56 | 0.62 | — | 5,478 | 5,478 | 0.25 | 0.79 | 2.08 | 5,722 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.43 | 0.42 | 0.33 | 5.62 | 0.00 | 0.00 | 2.58 | 2.58 | 0.00 | 0.60 | 0.60 | — | 1,975 | 1,975 | 0.02 | 0.01 | 0.96 | 1,980 |
| Vendor | 0.07 | 0.03 | 0.98 | 0.50 | 0.01 | 0.01 | 0.37 | 0.38 | 0.01 | 0.10 | 0.11 | — | 907 | 907 | 0.04 | 0.13 | 0.34 | 947 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.15. Paving (2034) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.11 | 3.45 | 35.1 | 58.9 | 0.08 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 |
| Paving | — | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|------|------|------|-------|------|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 4.11 | 3.45 | 35.1 | 58.9 | 0.08 | 1.06 | — | 1.06 | 0.98 | — | 0.98 | — | 9,064 | 9,064 | 0.37 | 0.07 | — | 9,095 | |
| Paving | — | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 2.19 | 1.84 | 18.8 | 31.5 | 0.04 | 0.57 | — | 0.57 | 0.52 | — | 0.52 | — | 4,842 | 4,842 | 0.20 | 0.04 | — | 4,859 | |
| Paving | — | 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 | |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Off-Road Equipment | 0.40 | 0.34 | 3.43 | 5.75 | 0.01 | 0.10 | — | 0.10 | 0.10 | — | 0.10 | — | 802 | 802 | 0.03 | 0.01 | — | 804 | |
| 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 | |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |
| Worker | 0.27 | 0.26 | 0.20 | 4.08 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,384 | 1,384 | 0.01 | 0.01 | 1.99 | 1,388 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | |

| | | | | | | | | | | | | | | | | | | |
|---------------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Worker | 0.27 | 0.26 | 0.20 | 3.49 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,317 | 1,317 | 0.01 | 0.01 | 0.05 | 1,320 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.14 | 0.11 | 1.96 | 0.00 | 0.00 | 0.83 | 0.83 | 0.00 | 0.19 | 0.19 | — | 713 | 713 | 0.01 | < 0.005 | 0.46 | 715 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.36 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04 | 0.04 | — | 118 | 118 | < 0.005 | < 0.005 | 0.08 | 118 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.16. Paving (2034) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 |
| Paving | — | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.32 | 0.32 | 3.87 | 21.2 | 0.03 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 3,021 | 3,021 | 0.12 | 0.02 | — | 3,032 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Paving | — | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.17 | 0.17 | 2.07 | 11.3 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 1,614 | 1,614 | 0.07 | 0.01 | — | 1,620 |
| Paving | — | 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 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.03 | 0.38 | 2.07 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| 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 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.26 | 0.20 | 4.08 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,384 | 1,384 | 0.01 | 0.01 | 1.99 | 1,388 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.27 | 0.26 | 0.20 | 3.49 | 0.00 | 0.00 | 1.57 | 1.57 | 0.00 | 0.37 | 0.37 | — | 1,317 | 1,317 | 0.01 | 0.01 | 0.05 | 1,320 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 0.14 | 0.11 | 1.96 | 0.00 | 0.00 | 0.83 | 0.83 | 0.00 | 0.19 | 0.19 | — | 713 | 713 | 0.01 | < 0.005 | 0.46 | 715 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|---------|------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.02 | 0.36 | 0.00 | 0.00 | 0.15 | 0.15 | 0.00 | 0.04 | 0.04 | — | 118 | 118 | < 0.005 | < 0.005 | 0.08 | 118 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2036) - Unmitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.65 | 0.54 | 4.51 | 6.58 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architect ural Coatings | — | 100 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.65 | 0.54 | 4.51 | 6.58 | 0.01 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 801 | 801 | 0.03 | 0.01 | — | 804 |
| Architect ural Coatings | — | 100 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.19 | 0.16 | 1.35 | 1.97 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 239 | 239 | 0.01 | < 0.005 | — | 240 |
| Architectural Coatings | — | 29.9 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.03 | 0.25 | 0.36 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 39.6 | 39.6 | < 0.005 | < 0.005 | — | 39.7 |
| Architectural Coatings | — | 5.45 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.64 | 2.59 | 1.99 | 38.3 | 0.00 | 0.00 | 16.1 | 16.1 | 0.00 | 3.77 | 3.77 | — | 13,886 | 13,886 | 0.11 | 0.08 | 15.1 | 13,928 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.64 | 2.59 | 2.05 | 33.2 | 0.00 | 0.00 | 16.1 | 16.1 | 0.00 | 3.77 | 3.77 | — | 13,220 | 13,220 | 0.11 | 0.08 | 0.39 | 13,247 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.79 | 0.77 | 0.60 | 10.3 | 0.00 | 0.00 | 4.74 | 4.74 | 0.00 | 1.11 | 1.11 | — | 4,002 | 4,002 | 0.03 | 0.02 | 1.95 | 4,012 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.11 | 1.88 | 0.00 | 0.00 | 0.86 | 0.86 | 0.00 | 0.20 | 0.20 | — | 663 | 663 | 0.01 | < 0.005 | 0.32 | 664 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 (2036) - Mitigated

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

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|-------------------------|------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|------|---------|------|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architect ural Coatings | — | 20.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.04 | 0.04 | 1.29 | 1.93 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 267 | 267 | 0.01 | < 0.005 | — | 268 |
| Architect ural Coatings | — | 20.2 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.39 | 0.58 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 79.7 | 79.7 | < 0.005 | < 0.005 | — | 80.0 |
| Architectural Coatings | — | 6.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.07 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | — | 13.2 |
| Architectural Coatings | — | 1.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.64 | 2.59 | 1.99 | 38.3 | 0.00 | 0.00 | 16.1 | 16.1 | 0.00 | 3.77 | 3.77 | — | 13,886 | 13,886 | 0.11 | 0.08 | 15.1 | 13,928 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 2.64 | 2.59 | 2.05 | 33.2 | 0.00 | 0.00 | 16.1 | 16.1 | 0.00 | 3.77 | 3.77 | — | 13,220 | 13,220 | 0.11 | 0.08 | 0.39 | 13,247 |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.79 | 0.77 | 0.60 | 10.3 | 0.00 | 0.00 | 4.74 | 4.74 | 0.00 | 1.11 | 1.11 | — | 4,002 | 4,002 | 0.03 | 0.02 | 1.95 | 4,012 |

| | | | | | | | | | | | | | | | | | | | |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------|------|------|------|
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.14 | 0.14 | 0.11 | 1.88 | 0.00 | 0.00 | 0.86 | 0.86 | 0.00 | 0.20 | 0.20 | — | 663 | 663 | 0.01 | < 0.005 | 0.32 | 664 | |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 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 | 17.5 | 16.1 | 9.70 | 132 | 0.38 | 0.17 | 16.2 | 16.3 | 0.15 | 2.86 | 3.01 | — | 38,458 | 38,458 | 1.51 | 1.41 | 44.1 | 38,961 |
| Regional Shopping Center | 2.82 | 2.67 | 1.17 | 13.8 | 0.03 | 0.02 | 1.35 | 1.37 | 0.01 | 0.24 | 0.25 | — | 3,325 | 3,325 | 0.19 | 0.16 | 3.69 | 3,380 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|---------|------|------|---------|------|------|---|--------|--------|------|------|------|--------|
| Total | 20.4 | 18.7 | 10.9 | 146 | 0.41 | 0.18 | 17.5 | 17.7 | 0.17 | 3.10 | 3.27 | — | 41,783 | 41,783 | 1.71 | 1.57 | 47.8 | 42,341 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 17.5 | 16.0 | 10.5 | 123 | 0.36 | 0.17 | 16.2 | 16.3 | 0.15 | 2.86 | 3.01 | — | 36,975 | 36,975 | 1.57 | 1.47 | 1.14 | 37,455 |
| Regional Shopping Center | 2.83 | 2.67 | 1.27 | 13.5 | 0.03 | 0.02 | 1.35 | 1.37 | 0.01 | 0.24 | 0.25 | — | 3,201 | 3,201 | 0.20 | 0.17 | 0.10 | 3,256 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 20.3 | 18.7 | 11.8 | 136 | 0.39 | 0.18 | 17.5 | 17.7 | 0.17 | 3.10 | 3.27 | — | 40,177 | 40,177 | 1.77 | 1.64 | 1.24 | 40,711 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 3.17 | 2.90 | 1.94 | 22.9 | 0.07 | 0.03 | 2.95 | 2.98 | 0.03 | 0.52 | 0.55 | — | 6,188 | 6,188 | 0.26 | 0.24 | 3.15 | 6,270 |
| Regional Shopping Center | 0.51 | 0.48 | 0.22 | 2.39 | 0.01 | < 0.005 | 0.23 | 0.23 | < 0.005 | 0.04 | 0.04 | — | 498 | 498 | 0.03 | 0.03 | 0.24 | 507 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 3.67 | 3.37 | 2.16 | 25.3 | 0.07 | 0.03 | 3.18 | 3.21 | 0.03 | 0.56 | 0.59 | — | 6,685 | 6,685 | 0.29 | 0.27 | 3.39 | 6,777 |

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 | 12.3 | 11.2 | 6.79 | 92.4 | 0.26 | 0.12 | 11.3 | 11.4 | 0.11 | 2.00 | 2.11 | — | 26,921 | 26,921 | 1.06 | 0.99 | 30.9 | 27,273 |
| Regional Shopping Center | 2.76 | 2.61 | 1.14 | 13.5 | 0.03 | 0.02 | 1.32 | 1.34 | 0.01 | 0.23 | 0.25 | — | 3,249 | 3,249 | 0.19 | 0.15 | 3.61 | 3,303 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 15.0 | 13.8 | 7.93 | 106 | 0.30 | 0.13 | 12.6 | 12.8 | 0.12 | 2.23 | 2.36 | — | 30,169 | 30,169 | 1.25 | 1.14 | 34.5 | 30,575 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 12.3 | 11.2 | 7.38 | 86.0 | 0.25 | 0.12 | 11.3 | 11.4 | 0.11 | 2.00 | 2.11 | — | 25,883 | 25,883 | 1.10 | 1.03 | 0.80 | 26,218 |
| Regional Shopping Center | 2.76 | 2.61 | 1.24 | 13.2 | 0.03 | 0.02 | 1.32 | 1.34 | 0.01 | 0.23 | 0.25 | — | 3,129 | 3,129 | 0.20 | 0.16 | 0.09 | 3,182 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------|------|------|------|------|---------|------|------|---------|------|------|---|--------|--------|------|------|------|--------|
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 15.0 | 13.8 | 8.62 | 99.2 | 0.28 | 0.13 | 12.6 | 12.8 | 0.12 | 2.23 | 2.36 | — | 29,011 | 29,011 | 1.29 | 1.19 | 0.89 | 29,400 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 2.22 | 2.03 | 1.36 | 16.1 | 0.05 | 0.02 | 2.06 | 2.08 | 0.02 | 0.37 | 0.38 | — | 4,331 | 4,331 | 0.18 | 0.17 | 2.21 | 4,389 |
| Regional Shopping Center | 0.49 | 0.47 | 0.22 | 2.33 | 0.01 | < 0.005 | 0.22 | 0.23 | < 0.005 | 0.04 | 0.04 | — | 486 | 486 | 0.03 | 0.03 | 0.24 | 495 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 2.71 | 2.49 | 1.57 | 18.4 | 0.05 | 0.02 | 2.29 | 2.31 | 0.02 | 0.40 | 0.43 | — | 4,818 | 4,818 | 0.21 | 0.20 | 2.44 | 4,884 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|---------|---|-------|
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 3,979 | 3,979 | 0.50 | 0.06 | — | 4,009 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 246 | 246 | 0.03 | < 0.005 | — | 248 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 2,711 | 2,711 | 0.34 | 0.04 | — | 2,732 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 6,935 | 6,935 | 0.88 | 0.11 | — | 6,989 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 3,979 | 3,979 | 0.50 | 0.06 | — | 4,009 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 246 | 246 | 0.03 | < 0.005 | — | 248 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 2,711 | 2,711 | 0.34 | 0.04 | — | 2,732 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 6,935 | 6,935 | 0.88 | 0.11 | — | 6,989 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|---------|---|-------|
| Apartments | — | — | — | — | — | — | — | — | — | — | — | — | 659 | 659 | 0.08 | 0.01 | — | 664 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 40.7 | 40.7 | 0.01 | < 0.005 | — | 41.0 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 449 | 449 | 0.06 | 0.01 | — | 452 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 1,148 | 1,148 | 0.15 | 0.02 | — | 1,157 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | 3,723 | 3,723 | 0.47 | 0.06 | — | 3,752 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 220 | 220 | 0.03 | < 0.005 | — | 222 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 2,732 | 2,732 | 0.35 | 0.04 | — | 2,753 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|---------|---------|---|-------|
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 6,675 | 6,675 | 0.84 | 0.10 | — | 6,727 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 3,693 | 3,693 | 0.47 | 0.06 | — | 3,722 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 220 | 220 | 0.03 | < 0.005 | — | 221 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 2,711 | 2,711 | 0.34 | 0.04 | — | 2,732 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 6,624 | 6,624 | 0.84 | 0.10 | — | 6,675 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | 615 | 615 | 0.08 | 0.01 | — | 620 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 36.4 | 36.4 | < 0.005 | < 0.005 | — | 36.7 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | — | 451 | 451 | 0.06 | 0.01 | — | 455 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | | |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|------|---|-------|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | 1,102 | 1,102 | 0.14 | 0.02 | — | 1,111 |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|-------|------|------|---|-------|

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 | 2.49 | 1.25 | 21.3 | 9.06 | 0.14 | 1.72 | — | 1.72 | 1.72 | — | 1.72 | — | 27,035 | 27,035 | 2.39 | 0.05 | — | 27,110 |
| Regional Shopping Center | 0.02 | 0.01 | 0.23 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 269 | 269 | 0.02 | < 0.005 | — | 269 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 2.52 | 1.26 | 21.5 | 9.25 | 0.14 | 1.74 | — | 1.74 | 1.74 | — | 1.74 | — | 27,304 | 27,304 | 2.42 | 0.05 | — | 27,379 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 2.49 | 1.25 | 21.3 | 9.06 | 0.14 | 1.72 | — | 1.72 | 1.72 | — | 1.72 | — | 27,035 | 27,035 | 2.39 | 0.05 | — | 27,110 |
| Regional Shopping Center | 0.02 | 0.01 | 0.23 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 269 | 269 | 0.02 | < 0.005 | — | 269 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|-------------|-------------|----------|-------------|----------|---------------|---------------|-------------|-------------|----------|---------------|
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 2.52 | 1.26 | 21.5 | 9.25 | 0.14 | 1.74 | — | 1.74 | 1.74 | — | 1.74 | — | 27,304 | 27,304 | 2.42 | 0.05 | — | 27,379 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 0.45 | 0.23 | 3.89 | 1.65 | 0.02 | 0.31 | — | 0.31 | 0.31 | — | 0.31 | — | 4,476 | 4,476 | 0.40 | 0.01 | — | 4,488 |
| Regional Shopping Center | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 44.5 | 44.5 | < 0.005 | < 0.005 | — | 44.6 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.46 | 0.23 | 3.93 | 1.69 | 0.03 | 0.32 | — | 0.32 | 0.32 | — | 0.32 | — | 4,520 | 4,520 | 0.40 | 0.01 | — | 4,533 |

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 | 2.21 | 1.10 | 18.9 | 8.03 | 0.12 | 1.53 | — | 1.53 | 1.53 | — | 1.53 | — | 23,957 | 23,957 | 2.12 | 0.05 | — | 24,023 |
| Regional Shopping Center | 0.02 | 0.01 | 0.22 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 266 | 266 | 0.02 | < 0.005 | — | 267 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 2.23 | 1.12 | 19.1 | 8.22 | 0.12 | 1.54 | — | 1.54 | 1.54 | — | 1.54 | — | 24,223 | 24,223 | 2.14 | 0.05 | — | 24,290 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | 2.21 | 1.10 | 18.9 | 8.03 | 0.12 | 1.53 | — | 1.53 | 1.53 | — | 1.53 | — | 23,957 | 23,957 | 2.12 | 0.05 | — | 24,023 |
| Regional Shopping Center | 0.02 | 0.01 | 0.22 | 0.19 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 266 | 266 | 0.02 | < 0.005 | — | 267 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 2.23 | 1.12 | 19.1 | 8.22 | 0.12 | 1.54 | — | 1.54 | 1.54 | — | 1.54 | — | 24,223 | 24,223 | 2.14 | 0.05 | — | 24,290 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---------|---------|------|------|---------|---------|---|---------|---------|---|---------|---|-------|-------|---------|---------|---|-------|
| Apartments Mid Rise | 0.40 | 0.20 | 3.44 | 1.47 | 0.02 | 0.28 | — | 0.28 | 0.28 | — | 0.28 | — | 3,966 | 3,966 | 0.35 | 0.01 | — | 3,977 |
| Regional Shopping Center | < 0.005 | < 0.005 | 0.04 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 44.1 | 44.1 | < 0.005 | < 0.005 | — | 44.2 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | 0.41 | 0.20 | 3.49 | 1.50 | 0.02 | 0.28 | — | 0.28 | 0.28 | — | 0.28 | — | 4,010 | 4,010 | 0.35 | 0.01 | — | 4,022 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 36.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 16.1 | 15.1 | 1.18 | 133 | 0.01 | 0.09 | — | 0.09 | 0.12 | — | 0.12 | — | 421 | 421 | 0.02 | < 0.005 | — | 422 |
| Total | 16.1 | 51.6 | 1.18 | 133 | 0.01 | 0.09 | — | 0.09 | 0.12 | — | 0.12 | 0.00 | 421 | 421 | 0.02 | < 0.005 | — | 422 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|------|------|------|------|---------|------|---|------|------|---|------|------|------|------|---------|---------|---|------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 36.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 6.67 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 2.01 | 1.88 | 0.15 | 16.6 | < 0.005 | 0.01 | — | 0.01 | 0.02 | — | 0.02 | — | 47.7 | 47.7 | < 0.005 | < 0.005 | — | 47.9 |
| Total | 2.01 | 8.55 | 0.15 | 16.6 | < 0.005 | 0.01 | — | 0.01 | 0.02 | — | 0.02 | 0.00 | 47.7 | 47.7 | < 0.005 | < 0.005 | — | 47.9 |

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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 36.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|-------------------|------|------|------|------|------|------|---|------|------|---|------|------|------|------|------|------|---|------|
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 36.5 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 36.5 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Hearths | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Consumer Products | — | 6.67 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | 0.00 | 6.67 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.4. Water Emissions by Land Use

4.4.2. 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 | — | — | — | — | — | — | — | — | — | — | — | 109 | 277 | 386 | 11.2 | 0.27 | — | 748 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 4.97 | 12.6 | 17.6 | 0.51 | 0.01 | — | 34.0 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 109 | 277 | 386 | 11.2 | 0.27 | — | 748 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 4.97 | 12.6 | 17.6 | 0.51 | 0.01 | — | 34.0 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 18.1 | 45.9 | 64.0 | 1.86 | 0.04 | — | 124 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 0.82 | 2.09 | 2.91 | 0.08 | < 0.005 | — | 5.63 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 18.9 | 48.0 | 66.9 | 1.94 | 0.05 | — | 129 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 109 | 277 | 386 | 11.2 | 0.27 | — | 748 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 4.97 | 12.6 | 17.6 | 0.51 | 0.01 | — | 34.0 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 109 | 277 | 386 | 11.2 | 0.27 | — | 748 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---------|---|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 4.97 | 12.6 | 17.6 | 0.51 | 0.01 | — | 34.0 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 114 | 290 | 404 | 11.7 | 0.28 | — | 782 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 18.1 | 45.9 | 64.0 | 1.86 | 0.04 | — | 124 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 0.82 | 2.09 | 2.91 | 0.08 | < 0.005 | — | 5.63 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 18.9 | 48.0 | 66.9 | 1.94 | 0.05 | — | 129 |

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 | — | — | — | — | — | — | — | — | — | — | — | 605 | 0.00 | 605 | 60.5 | 0.00 | — | 2,118 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.00 | 0.12 | 0.01 | 0.00 | — | 0.44 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 605 | 0.00 | 605 | 60.5 | 0.00 | — | 2,118 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|---------|------|---|-------|
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.00 | 0.12 | 0.01 | 0.00 | — | 0.44 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 100 | 0.00 | 100 | 10.0 | 0.00 | — | 351 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 3.28 | 0.00 | 3.28 | 0.33 | 0.00 | — | 11.5 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.3 | 0.00 | — | 362 |

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 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 | — | — | — | — | — | — | — | — | — | — | — | 605 | 0.00 | 605 | 60.5 | 0.00 | — | 2,118 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|-------|
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.00 | 0.12 | 0.01 | 0.00 | — | 0.44 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 605 | 0.00 | 605 | 60.5 | 0.00 | — | 2,118 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 19.8 | 0.00 | 19.8 | 1.98 | 0.00 | — | 69.3 |
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.12 | 0.00 | 0.12 | 0.01 | 0.00 | — | 0.44 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 625 | 0.00 | 625 | 62.5 | 0.00 | — | 2,188 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | 100 | 0.00 | 100 | 10.0 | 0.00 | — | 351 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 3.28 | 0.00 | 3.28 | 0.33 | 0.00 | — | 11.5 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|---------|------|---|------|
| Enclosed Parking with Elevator | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Other Asphalt Surfaces | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | 0.02 | 0.00 | 0.02 | < 0.005 | 0.00 | — | 0.07 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.3 | 0.00 | — | 362 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.0 | 12.0 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.17 | 0.17 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.0 | 12.0 |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.17 | 0.17 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.98 | 1.98 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03 | 0.03 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 2.01 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.0 | 12.0 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.17 | 0.17 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Apartment Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.0 | 12.0 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.17 | 0.17 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 12.1 | 12.1 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Apartments Mid Rise | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.98 | 1.98 |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03 | 0.03 |
| City Park | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2.01 | 2.01 |

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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.7.2. 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 |
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|----------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

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|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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)

| Vegetatio | 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 |
|---------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
|---------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|

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

| | | | | | | | | | | | | | | | | | | |
|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

| | | | | | | | | | | | | | | | | | | |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

| | | | | | | | | | | | | | | | | | | |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

5. Activity Data

5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| Demolition | Demolition | 1/1/2033 | 3/31/2033 | 5.00 | 64.0 | — |
| Site Preparation | Site Preparation | 4/1/2033 | 4/17/2033 | 5.00 | 11.0 | — |
| Grading | Grading | 4/18/2033 | 1/31/2034 | 5.00 | 207 | — |
| Building Construction | Building Construction | 11/1/2034 | 3/31/2036 | 5.00 | 369 | — |
| Paving | Paving | 2/1/2034 | 10/31/2034 | 5.00 | 195 | — |
| Architectural Coating | Architectural Coating | 1/1/2036 | 5/31/2036 | 5.00 | 109 | — |

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

| | | | | | | | |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Average | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Average | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Average | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 4.00 | 8.00 | 84.0 | 0.37 |

| | | | | | | | |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Grading | Excavators | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Average | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Average | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Average | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Average | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |

5.2.2. Mitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|---------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |

| | | | | | | | |
|-----------------------|---------------------------|--------|--------------|------|------|------|------|
| Grading | Scrapers | Diesel | Tier 4 Final | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 1.00 | 6.00 | 37.0 | 0.48 |
| Demolition | Concrete/Industrial Saws | Diesel | Tier 4 Final | 1.00 | 8.00 | 33.0 | 0.73 |
| Demolition | Excavators | Diesel | Tier 4 Final | 3.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Rubber Tired Dozers | Diesel | Tier 4 Final | 2.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Rubber Tired Dozers | Diesel | Tier 4 Final | 3.00 | 8.00 | 367 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 8.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Grading | Graders | Diesel | Tier 4 Final | 1.00 | 8.00 | 148 | 0.41 |
| Grading | Rubber Tired Dozers | Diesel | Tier 4 Final | 1.00 | 8.00 | 367 | 0.40 |
| Grading | Scrapers | Diesel | Tier 4 Final | 2.00 | 8.00 | 423 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.37 |
| Building Construction | Cranes | Diesel | Tier 4 Final | 1.00 | 7.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Tier 4 Final | 3.00 | 8.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |

| | | | | | | | |
|-----------------------|------------------------|--------|--------------|------|------|------|------|
| Building Construction | Tractors/Loaders/Backh | Diesel | Tier 4 Final | 3.00 | 7.00 | 84.0 | 0.37 |
| Building Construction | Welders | Diesel | Average | 1.00 | 8.00 | 46.0 | 0.45 |
| Paving | Pavers | Diesel | Tier 4 Final | 2.00 | 8.00 | 81.0 | 0.42 |
| Paving | Paving Equipment | Diesel | Tier 4 Final | 2.00 | 8.00 | 89.0 | 0.36 |
| Paving | Rollers | Diesel | Tier 4 Final | 2.00 | 8.00 | 36.0 | 0.38 |
| Architectural Coating | Air Compressors | Diesel | Tier 4 Final | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |

| | | | | |
|------------------|--------------|------|------|---------------|
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |

| | | | | |
|-----------------------|--------------|-------|------|---------------|
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |

| | | | | |
|-----------------------|--------------|------|------|---------------|
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|-----------------------|--------------|------|------|---------------|
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | 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 | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Demolition | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 270 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |

| | | | | |
|------------------|--------------|------|------|---------------|
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Site Preparation | Worker | 35.0 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 0.00 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |

| | | | | |
|-----------------------|--------------|-------|------|---------------|
| Grading | Onsite truck | — | — | HHDT |
| Grading | Worker | 40.0 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 293 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Building Construction | Worker | 1,537 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 337 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |

| | | | | |
|-----------------------|--------------|------|------|---------------|
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Paving | Worker | 30.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |
| Architectural Coating | Worker | 307 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | 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% |
| Sweep paved roads once per month | 9% | 9% |

5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|--|--|--|--|-----------------------------|
| Architectural Coating | 3,383,613 | 1,127,871 | 62,105 | 18,567 | 14,662 |

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------------|---------------------|
| Demolition | 0.00 | 0.00 | 0.00 | 69,108 | — |
| Site Preparation | — | — | 33.0 | 0.00 | — |
| Grading | — | 484,869 | 1,242 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 8.34 |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area | 3 | 74% | 74% |
| Water Demolished Area | 2 | 36% | 36% |

5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|--------------------------------|--------------------|-----------|
| Apartments Mid Rise | — | 0% |
| Apartments Mid Rise | — | 0% |
| Regional Shopping Center | 0.00 | 0% |
| Enclosed Parking with Elevator | 4.90 | 100% |
| Other Asphalt Surfaces | 3.44 | 100% |
| City Park | 0.00 | 0% |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|------|--------------|-----|------|---------|
| 2033 | 0.00 | 261 | 0.03 | < 0.005 |
| 2034 | 0.00 | 261 | 0.03 | < 0.005 |
| 2034 | 0.00 | 261 | 0.03 | < 0.005 |
| 2034 | 0.00 | 261 | 0.03 | < 0.005 |
| 2035 | 0.00 | 261 | 0.03 | < 0.005 |
| 2036 | 0.00 | 261 | 0.03 | < 0.005 |
| 2035 | 0.00 | 261 | 0.03 | < 0.005 |
| 2036 | 0.00 | 261 | 0.03 | < 0.005 |
| 2035 | 0.00 | 261 | 0.03 | < 0.005 |
| 2036 | 0.00 | 261 | 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 | 6,896 | 6,896 | 6,896 | 2,517,135 | 58,437 | 58,437 | 58,437 | 21,329,448 |
| Regional Shopping Center | 1,295 | 1,295 | 1,295 | 472,675 | 4,378 | 4,892 | 4,892 | 1,651,442 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

5.9.2. Mitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|--------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|------------|
| Apartments Mid Rise | 4,827 | 4,827 | 4,827 | 1,761,994 | 40,906 | 40,906 | 40,906 | 14,930,614 |
| Regional Shopping Center | 1,265 | 1,265 | 1,265 | 461,903 | 4,278 | 4,780 | 4,780 | 1,613,807 |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|---------------------------|----------------------|
| Apartments Mid Rise | — |
| Wood Fireplaces | 0 |
| Gas Fireplaces | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 152 |
| 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 | 0 |
| Propane Fireplaces | 0 |
| Electric Fireplaces | 0 |
| No Fireplaces | 152 |
| 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) |
|--|--|--|--|-----------------------------|
| — | — | — | — | — |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

5.10.4. Landscape Equipment - Mitigated

| Season | Unit | Value |
|-------------|--------|-------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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 | 5,568,402 | 261 | 0.0330 | 0.0040 | 16,871,294 |
| Regional Shopping Center | 343,748 | 261 | 0.0330 | 0.0040 | 209,543 |
| Enclosed Parking with Elevator | 3,794,792 | 261 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 261 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 261 | 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 | 5,169,132 | 261 | 0.0330 | 0.0040 | 14,950,265 |
| Regional Shopping Center | 307,282 | 261 | 0.0330 | 0.0040 | 207,760 |
| Enclosed Parking with Elevator | 3,794,792 | 261 | 0.0330 | 0.0040 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 261 | 0.0330 | 0.0040 | 0.00 |
| City Park | 0.00 | 261 | 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 | 57,001,462 | 0.00 |
| Regional Shopping Center | 2,592,538 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 |

5.12.2. Mitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------------|-------------------------|--------------------------|
| Apartments Mid Rise | 57,001,462 | 0.00 |
| Regional Shopping Center | 2,592,538 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.00 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Apartments Mid Rise | 1123.35 | 0.00 |
| Regional Shopping Center | 36.75 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.23 | 0.00 |

5.13.2. Mitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------------|------------------|-------------------------|
| Apartments Mid Rise | 1123.35 | 0.00 |
| Regional Shopping Center | 36.75 | 0.00 |
| Enclosed Parking with Elevator | 0.00 | 0.00 |
| Other Asphalt Surfaces | 0.00 | 0.00 |
| City Park | 0.23 | 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 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.14.2. Mitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|--------------------------|---|-------------|-------|---------------|----------------------|-------------------|----------------|
| 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 |
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |
| City Park | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| City Park | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

| | | | | |
|-------------------------|-----|-----|-----|-----|
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |

| | |
|---------------------------------|------|
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |
| Unemployment | 3.58 |

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |

| | |
|--|-------------|
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |

| | |
|---------------------------------------|------|
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |

| | |
|------------------------|------|
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|-----------------------------------|---|
| Land Use | Adjusted per project specific details. Landscape area included in City Park, rec area included in overall square footage. |
| Construction: Construction Phases | anticipated construction schedule |

| | |
|--------------------------------------|---|
| Construction: Architectural Coatings | added coatings phase |
| Construction: Paving | other asphalt surfaces increased to capture all potential paved areas |
| Operations: Vehicle Data | Trip rates per traffic study |
| Operations: Hearths | No wood burning per SCAQMD Rule 445 |

Road Construction Emissions Model, Version 9.0.0

| Daily Emission Estimates for -> Related Bristol Off-Site Improvements (Unmitigated) | | | | | | | | | | | | | | |
|---|---------------|--------------|---------------|----------------|------------------------|------------------------------|-----------------------|-------------------------|-------------------------------|---------------|---------------|---------------|---------------|----------------|
| Project Phases (Pounds) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | PM10 (lbs/day) | Exhaust PM10 (lbs/day) | Fugitive Dust PM10 (lbs/day) | Total PM2.5 (lbs/day) | Exhaust PM2.5 (lbs/day) | Fugitive Dust PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) |
| Grubbing/Land Clearing | 0.92 | 10.16 | 7.87 | 3.36 | 0.36 | 3.00 | 0.94 | 0.31 | 0.62 | 0.02 | 2,257.17 | 0.59 | 0.04 | 2,285.18 |
| Grading/Excavation | 3.17 | 35.60 | 29.09 | 4.27 | 1.27 | 3.00 | 1.74 | 1.12 | 0.62 | 0.08 | 7,570.05 | 2.19 | 0.10 | 7,653.88 |
| Drainage/Utilities/Sub-Grade | 2.08 | 24.87 | 19.98 | 3.83 | 0.83 | 3.00 | 1.35 | 0.72 | 0.62 | 0.06 | 5,446.29 | 0.84 | 0.19 | 5,523.22 |
| Paving | 1.31 | 18.64 | 18.81 | 0.79 | 0.79 | 0.00 | 0.59 | 0.59 | 0.00 | 0.06 | 6,400.77 | 0.76 | 0.60 | 6,599.69 |
| Maximum (pounds/day) | 3.17 | 35.60 | 29.09 | 4.27 | 1.27 | 3.00 | 1.74 | 1.12 | 0.62 | 0.08 | 7,570.05 | 2.19 | 0.60 | 7,653.88 |
| Total (tons/construction project) | 0.31 | 3.60 | 3.00 | 0.47 | 0.13 | 0.34 | 0.18 | 0.11 | 0.07 | 0.01 | 821.86 | 0.19 | 0.03 | 834.20 |

Notes:
 Project Start Year -> 2026
 Project Length (months) -> 12
 Total Project Area (acres) -> 19
 Maximum Area Disturbed/Day (acres) -> 0
 Water Truck Used? -> Yes

| Phase | Total Material Imported/Exported Volume (yd ³ /day) | | Daily VMT (miles/day) | | | |
|------------------------------|--|---------|-----------------------|-----------------|----------------|-------------|
| | Soil | Asphalt | Soil Hauling | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing | 0 | 0 | 0 | 0 | 320 | 40 |
| Grading/Excavation | 0 | 0 | 0 | 0 | 920 | 40 |
| Drainage/Utilities/Sub-Grade | 100 | 0 | 210 | 0 | 680 | 40 |
| Paving | 0 | 500 | 0 | 960 | 520 | 40 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

| Total Emission Estimates by Phase for -> Related Bristol Off-Site Improvements (Unmitigated) | | | | | | | | | | | | | | |
|--|------------------|-----------------|------------------|-------------------|---------------------------|---------------------------------|--------------------------|----------------------------|----------------------------------|------------------|------------------|------------------|------------------|-----------------|
| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e) | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | PM10 (tons/phase) | Exhaust PM10 (tons/phase) | Fugitive Dust PM10 (tons/phase) | Total PM2.5 (tons/phase) | Exhaust PM2.5 (tons/phase) | Fugitive Dust PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) |
| Grubbing/Land Clearing | 0.01 | 0.13 | 0.10 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 29.79 | 0.01 | 0.00 | 27.36 |
| Grading/Excavation | 0.19 | 2.11 | 1.73 | 0.25 | 0.08 | 0.18 | 0.10 | 0.07 | 0.04 | 0.00 | 449.66 | 0.13 | 0.01 | 412.45 |
| Drainage/Utilities/Sub-Grade | 0.08 | 0.98 | 0.79 | 0.15 | 0.03 | 0.12 | 0.05 | 0.03 | 0.02 | 0.00 | 215.67 | 0.03 | 0.01 | 198.42 |
| Paving | 0.03 | 0.37 | 0.37 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 126.74 | 0.02 | 0.01 | 118.55 |
| Maximum (tons/phase) | 0.19 | 2.11 | 1.73 | 0.25 | 0.08 | 0.18 | 0.10 | 0.07 | 0.04 | 0.00 | 449.66 | 0.13 | 0.01 | 412.45 |
| Total (tons/construction project) | 0.31 | 3.60 | 3.00 | 0.47 | 0.13 | 0.34 | 0.18 | 0.11 | 0.07 | 0.01 | 821.86 | 0.19 | 0.03 | 756.78 |


PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.
 Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.
 CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.
 The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

Input Type

| | | |
|---|-------|--|
| Project Name | | Related Bristol Off-Site Improvements (Unmitigated) |
| Construction Start Year | 2026 | Enter a Year between 2014 and 2040 (inclusive) |
| Project Type | 2 | 1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction |
| Project Construction Time | 12.00 | months |
| Working Days per Month | 22.00 | days (assume 22 if unknown) |
| Predominant Soil/Type: Enter 1, 2, or 3 <small>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J19 to J22)</small> | 2 | 1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta) |
| Project Length | 1.50 | miles |
| Total Project Area | 19.00 | acres |
| Maximum Area Disturbed/Day | 0.30 | acres |
| Water Trucks Used? | 1 | 1. Yes 2. No |



To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/E ages/geologicmaps.aspx#facnalseries

Material Hauling Quantity Input

| Material Type | Phase | Haul Truck Capacity (yd ³) (assume 20 if unknown) | Import Volume (yd ³ /day) | Export Volume (yd ³ /day) |
|---------------|------------------------------|---|--------------------------------------|--------------------------------------|
| Soil | Grubbing/Land Clearing | 16.00 | 0.00 | 0.00 |
| | Grading/Excavation | 16.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 16.00 | 0.00 | 100.00 |
| | Paving | 16.00 | 0.00 | 0.00 |
| Asphalt | Grubbing/Land Clearing | 16.00 | 0.00 | 0.00 |
| | Grading/Excavation | 16.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 16.00 | 0.00 | 0.00 |
| | Paving | 16.00 | 500.00 | 0.00 |

Mitigation Options

| | | |
|---|---------------|--|
| On-road Fleet Emissions Mitigation | No Mitigation | Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation). Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard |
| Off-road Equipment Emissions Mitigation | No Mitigation | |

The remaining sections of this sheet contain areas that can be modified by the user, although those modifications are optional.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

| Construction Periods | User Override of Construction Months | Program Calculated Months | User Override of Phase Starting Date | Program Default Phase Starting Date |
|------------------------------|--------------------------------------|---------------------------|--------------------------------------|-------------------------------------|
| Grubbing/Land Clearing | | 1.20 | | 1/1/2026 |
| Grading/Excavation | | 5.40 | | 2/7/2026 |
| Drainage/Utilities/Sub-Grade | | 3.60 | | 7/22/2026 |
| Paving | | 1.80 | | 11/9/2026 |
| Totals (Months) | | 12 | | |

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

| Soil Hauling Emissions | | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT | | | | | |
|---|------|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------------|------------|------------|------------|-------------|
| User Input | | | | | | | | | | | |
| Miles/round trip: Grubbing/Land Clearing | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Grading/Excavation | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Drainage/Utilities/Sub-Grade | | 30.00 | | | 7 | 210.00 | | | | | |
| Miles/round trip: Paving | | 30.00 | | | 0 | 0.00 | | | | | |
| Emission Rates | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Grubbing/Land Clearing (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Grading/Excavation (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Drainage/Utilities/Sub-Grade (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Paving (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,659.48 | 0.00 | 0.26 | 1,737.26 | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Drainage/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling Emissions | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.02 | 0.20 | 1.66 | 0.05 | 0.02 | 0.01 | 768.86 | 0.00 | 0.12 | 804.89 | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 0.00 | 30.45 | 0.00 | 0.00 | 31.87 | |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total tons per construction project | 0.00 | 0.01 | 0.07 | 0.00 | 0.00 | 0.00 | 30.45 | 0.00 | 0.00 | 31.87 | |

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

| Asphalt Hauling Emissions | | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT | | | | | |
|---|------|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------------|------------|------------|------------|-------------|
| User Input | | | | | | | | | | | |
| Miles/round trip: Grubbing/Land Clearing | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Grading/Excavation | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Drainage/Utilities/Sub-Grade | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Paving | | 30.00 | | | 32 | 960.00 | | | | | |
| Emission Rates | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Grubbing/Land Clearing (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Grading/Excavation (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Drainage/Utilities/Sub-Grade (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | |
| Paving (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,659.48 | 0.00 | 0.26 | 1,737.26 | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Drainage/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Emissions | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Paving | 0.08 | 0.91 | 7.57 | 0.24 | 0.11 | 0.03 | 3,512.19 | 0.00 | 0.55 | 3,676.80 | |
| Tons per const. Period - Paving | 0.00 | 0.02 | 0.15 | 0.00 | 0.00 | 0.00 | 69.54 | 0.00 | 0.01 | 72.80 | |
| Total tons per construction project | 0.00 | 0.02 | 0.15 | 0.00 | 0.00 | 0.00 | 69.54 | 0.00 | 0.01 | 72.80 | |

Note: Worker commute default values can be overridden in cells D121 through D126.

| Worker Commute Emissions | | User Override of Worker Commute Default Values | | Default Values | | Calculated | | Calculated | | |
|---|------------|--|------------|----------------|--------------|------------|------------|------------|------------|-------------|
| User Input | | | | | | | | | | |
| Miles/ one-way trip | | 20 | | | | | | | | |
| One-way trips/day | | 2 | | | | | | | | |
| No. of employees: Grubbing/Land Clearing | | 8 | | | | 16 | | | 320.00 | |
| No. of employees: Grading/Excavation | | 23 | | | | 46 | | | 920.00 | |
| No. of employees: Drainage/Utilities/Sub-Grade | | 17 | | | | 34 | | | 680.00 | |
| No. of employees: Paving | | 13 | | | | 26 | | | 520.00 | |
| Emission Rates | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Grubbing/Land Clearing (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Grading/Excavation (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Paving (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.39 | 0.00 | 0.00 | 286.94 |
| Grubbing/Land Clearing (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Grading/Excavation (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Paving (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.49 | 0.06 | 0.03 | 70.98 |
| Emissions | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Pounds per day - Grubbing/Land Clearing | 0.04 | 0.60 | 0.04 | 0.03 | 0.01 | 0.00 | 203.83 | 0.00 | 0.00 | 205.27 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 2.69 | 0.00 | 0.00 | 2.71 |
| Pounds per day - Grading/Excavation | 0.11 | 1.72 | 0.12 | 0.09 | 0.04 | 0.01 | 586.02 | 0.01 | 0.01 | 590.14 |
| Tons per const. Period - Grading/Excavation | 0.01 | 0.10 | 0.01 | 0.01 | 0.00 | 0.00 | 34.81 | 0.00 | 0.00 | 35.05 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.08 | 1.27 | 0.09 | 0.07 | 0.03 | 0.00 | 433.14 | 0.01 | 0.01 | 436.19 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 17.15 | 0.00 | 0.00 | 17.27 |
| Pounds per day - Paving | 0.06 | 0.97 | 0.07 | 0.05 | 0.02 | 0.00 | 330.69 | 0.01 | 0.01 | 333.02 |
| Tons per const. Period - Paving | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 6.55 | 0.00 | 0.00 | 6.59 |
| Total tons per construction project | 0.01 | 0.18 | 0.01 | 0.01 | 0.00 | 0.00 | 61.20 | 0.00 | 0.00 | 61.63 |

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

| Water Truck Emissions | | User Override of Program Estimate of | | User Override of Truck | | Default Values | | Calculated | | User Override of | | Default Values | | Calculated | |
|---|------------|--------------------------------------|------------------------|-------------------------|-------------------------|----------------|------------------|------------------|------------------|------------------|--|----------------|--|------------|--|
| User Input | | Default # Water Trucks | Number of Water Trucks | Round Trips/Vehicle/Day | Round Trips/Vehicle/Day | Trips/day | Miles/Round Trip | Miles/Round Trip | Miles/Round Trip | Daily VMT | | | | | |
| Grubbing/Land Clearing - Exhaust | | 1 | | | | 5 | | | 8.00 | | | | | 40.00 | |
| Grading/Excavation - Exhaust | | 1 | | | | 5 | | | 8.00 | | | | | 40.00 | |
| Drainage/Utilities/Subgrade | | 1 | | | | 5 | | | 8.00 | | | | | 40.00 | |
| Paving | | 1 | | | | 5 | | | 8.00 | | | | | 40.00 | |
| Emission Rates | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | | | | | |
| Grubbing/Land Clearing (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | | | | | |
| Grading/Excavation (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | | | | | |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,660.70 | 0.00 | 0.26 | 1,738.54 | | | | | |
| Paving (grams/mile) | 0.04 | 0.43 | 3.43 | 0.11 | 0.05 | 0.02 | 1,659.48 | 0.00 | 0.26 | 1,737.26 | | | | | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Emissions | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | | | | | |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.04 | 0.35 | 0.01 | 0.00 | 0.00 | 146.45 | 0.00 | 0.02 | 153.31 | | | | | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.93 | 0.00 | 0.00 | 2.02 | | | | | |
| Pounds per day - Grading/Excavation | 0.00 | 0.04 | 0.35 | 0.01 | 0.00 | 0.00 | 146.45 | 0.00 | 0.02 | 153.31 | | | | | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 8.70 | 0.00 | 0.00 | 9.11 | | | | | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.04 | 0.35 | 0.01 | 0.00 | 0.00 | 146.45 | 0.00 | 0.02 | 153.31 | | | | | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 5.80 | 0.00 | 0.00 | 6.07 | | | | | |
| Pounds per day - Paving | 0.00 | 0.04 | 0.35 | 0.01 | 0.00 | 0.00 | 146.34 | 0.00 | 0.02 | 153.20 | | | | | |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 2.90 | 0.00 | 0.00 | 3.03 | | | | | |
| Total tons per construction project | 0.00 | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 19.33 | 0.00 | 0.00 | 20.24 | | | | | |

Note: Fugitive dust default values can be overridden in cells D183 through D185.

| Fugitive Dust | | User Override of Max Acreage Disturbed/Day | | PM10 | PM10 | PM2.5 | PM2.5 |
|---|--|--|---------------------|------------|-----------------|------------|-----------------|
| | | Default | Maximum Acreage/Day | pounds/day | tons/per period | pounds/day | tons/per period |
| Fugitive Dust - Grubbing/Land Clearing | | 0.30 | | 3.00 | 0.04 | 0.62 | 0.01 |
| Fugitive Dust - Grading/Excavation | | 0.30 | | 3.00 | 0.18 | 0.62 | 0.04 |
| Fugitive Dust - Drainage/Utilities/Subgrade | | 0.30 | | 3.00 | 0.12 | 0.62 | 0.02 |

| Off-Road Equipment Emissions | | | | | | | | | | | | | | | |
|--|------------------------|---|---|--------------------|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Grubbing/Land Clearing | | Default Number of Vehicles | Mitigation Option Override of | Default | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Override of Default Number of Vehicles | | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | |
| | | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1 | | | Model Default Tier | Crawler Tractors | 0.37 | 2.10 | 3.96 | 0.15 | 0.14 | 0.01 | 758.27 | 0.25 | 0.01 | |
| | | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 2 | | | Model Default Tier | Excavators | 0.33 | 6.52 | 2.44 | 0.12 | 0.11 | 0.01 | 1,000.68 | 0.32 | 0.01 | |
| | | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 3 | | | Model Default Tier | Signal Boards | 0.17 | 0.90 | 1.08 | 0.04 | 0.04 | 0.00 | 147.94 | 0.02 | 0.00 | |
| | | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| User-Defined Off-road Equipment | | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab | | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| | Number of Vehicles | | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Grubbing/Land Clearing | | | pounds per day | 0.88 | 9.53 | 7.48 | 0.32 | 0.29 | 0.02 | 1,906.89 | 0.58 | 0.02 | 1,926.60 | |
| | Grubbing/Land Clearing | | | tons per phase | 0.01 | 0.13 | 0.10 | 0.00 | 0.00 | 0.00 | 25.17 | 0.01 | 0.00 | 25.43 | |

| Grading/Excavation | Default | | Mitigation Option | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
|--|--|------------------|---|--------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Number of Vehicles | Override of | Default | Default | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0 | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | | Model Default Tier | Crawler Tractors | 0.37 | 2.10 | 3.96 | 0.15 | 0.14 | 0.01 | 758.27 | 0.25 | 0.01 |
| | | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3 | | | Model Default Tier | Excavators | 0.50 | 9.78 | 3.66 | 0.18 | 0.17 | 0.02 | 1,501.02 | 0.49 | 0.01 |
| | | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 2 | | | Model Default Tier | Graders | 0.31 | 1.59 | 3.46 | 0.11 | 0.10 | 0.01 | 640.24 | 0.21 | 0.01 |
| | | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 2 | | | Model Default Tier | Rollers | 0.27 | 3.69 | 2.89 | 0.15 | 0.13 | 0.01 | 508.12 | 0.16 | 0.00 |
| | | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | | Model Default Tier | Rubber Tired Loaders | 0.23 | 1.47 | 1.86 | 0.06 | 0.06 | 0.01 | 605.62 | 0.20 | 0.01 |
| | 2 | | | Model Default Tier | Scrapers | 0.67 | 5.38 | 6.37 | 0.25 | 0.23 | 0.02 | 1,468.15 | 0.47 | 0.01 |
| | 3 | | | Model Default Tier | Signal Boards | 0.17 | 0.90 | 1.08 | 0.04 | 0.04 | 0.00 | 147.94 | 0.02 | 0.00 |
| | | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4 | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.53 | 8.92 | 5.34 | 0.22 | 0.20 | 0.01 | 1,208.22 | 0.39 | 0.01 |
| | | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| User-Defined Off-road Equipment | | | | | If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab | | | | | | | | | |
| | Number of Vehicles | | Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Grading/Excavation | | | pounds per day | 3.06 | 33.84 | 28.61 | 1.16 | 1.07 | 0.07 | 6,837.58 | 2.18 | 0.06 | 6,910.43 |
| | Grading/Excavation | | | tons per phase | 0.18 | 2.01 | 1.70 | 0.07 | 0.06 | 0.00 | 406.15 | 0.13 | 0.00 | 410.48 |

| Drainage/Utilities/Subgrade | | Default Number of Vehicles | Mitigation Option Override of Default | Default | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
|--|---|---|---|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Override of Default Number of Vehicles | | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | 1 | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Air Compressors | 0.23 | 2.41 | 1.53 | 0.07 | 0.07 | 0.00 | 375.26 | 0.02 | 0.00 | 376.62 |
| | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | Model Default Tier | Generator Sets | 0.27 | 3.66 | 2.40 | 0.10 | 0.10 | 0.01 | 623.04 | 0.02 | 0.00 | 625.91 |
| | 1 | | Model Default Tier | Graders | 0.16 | 0.80 | 1.73 | 0.06 | 0.05 | 0.00 | 320.12 | 0.10 | 0.00 | 323.57 |
| | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | Model Default Tier | Plate Compactors | 0.04 | 0.21 | 0.25 | 0.01 | 0.01 | 0.00 | 34.48 | 0.00 | 0.00 | 34.65 |
| | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | Model Default Tier | Pumps | 0.29 | 3.72 | 2.43 | 0.10 | 0.10 | 0.01 | 623.04 | 0.03 | 0.00 | 625.06 |
| | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | Model Default Tier | Rough Terrain Forklifts | 0.10 | 2.29 | 1.28 | 0.04 | 0.03 | 0.00 | 333.72 | 0.11 | 0.00 | 337.31 |
| | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 1 | | Model Default Tier | Scrapers | 0.34 | 2.69 | 3.19 | 0.13 | 0.12 | 0.01 | 734.07 | 0.24 | 0.01 | 741.99 |
| | 3 | | Model Default Tier | Signal Boards | 0.17 | 0.90 | 1.08 | 0.04 | 0.04 | 0.00 | 147.94 | 0.02 | 0.00 | 148.66 |
| | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3 | | Model Default Tier | Tractors/Loaders/Backhoes | 0.40 | 6.69 | 4.01 | 0.16 | 0.15 | 0.01 | 906.17 | 0.29 | 0.01 | 915.91 |
| | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| User-Defined Off-road Equipment | | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Number of Vehicles | | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Drainage/Utilities/Sub-Grade | | | pounds per day | 1.98 | 23.36 | 17.88 | 0.70 | 0.67 | 0.04 | 4,097.83 | 0.83 | 0.03 | 4,128.82 | |
| Drainage/Utilities/Sub-Grade | | | tons per phase | 0.08 | 0.93 | 0.71 | 0.03 | 0.03 | 0.00 | 162.27 | 0.03 | 0.00 | 163.50 | |

| Paving | Default | | Mitigation Option | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
|--|--|------------------|---|--------------------|---------------------------------|--|-------------|-------------|-------------|-------------|---------------|-------------|-------------|---------------|--|
| | Number of Vehicles | Override of | Default | Default | | | | | | | | | | | |
| | Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | |
| | | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | 1 | | Model Default Tier | Pavers | 0.17 | 2.90 | 1.58 | 0.07 | 0.07 | 0.00 | 454.99 | 0.15 | 0.00 | |
| | | 1 | | Model Default Tier | Paving Equipment | 0.15 | 2.55 | 1.26 | 0.06 | 0.06 | 0.00 | 394.32 | 0.13 | 0.00 | |
| | | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | 2 | | Model Default Tier | Rollers | 0.27 | 3.69 | 2.89 | 0.15 | 0.13 | 0.01 | 508.12 | 0.16 | 0.00 | |
| | | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | 3 | | Model Default Tier | Signal Boards | 0.17 | 0.90 | 1.08 | 0.04 | 0.04 | 0.00 | 147.94 | 0.02 | 0.00 | |
| | | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | 3 | | Model Default Tier | Tractors/Loaders/Backhoes | 0.40 | 6.69 | 4.01 | 0.16 | 0.15 | 0.01 | 906.17 | 0.29 | 0.01 | |
| | | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| User-Defined Off-road Equipment | | | | | | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab | | | | | | | | | |
| | Number of Vehicles | | Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | Paving | | pounds per day | 1.16 | 16.73 | 10.82 | 0.49 | 0.45 | 0.03 | 2,411.54 | 0.75 | 0.02 | 2,436.68 | |
| | | Paving | | tons per phase | 0.02 | 0.33 | 0.21 | 0.01 | 0.01 | 0.00 | 47.75 | 0.01 | 0.00 | 48.25 | |
| Total Emissions all Phases (tons per construction period) => | | | | | 0.29 | 3.39 | 2.72 | 0.11 | 0.10 | 0.01 | 641.35 | 0.18 | 0.01 | 647.66 | |

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

| Equipment | User Override of Horsepower | Default Values Horsepower | User Override of Hours/day | Default Values Hours/day |
|------------------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|
| Aerial Lifts | | 63 | | 8 |
| Air Compressors | | 78 | | 8 |
| Bore/Drill Rigs | | 221 | | 8 |
| Cement and Mortar Mixers | | 9 | | 8 |
| Concrete/Industrial Saws | | 81 | | 8 |
| Cranes | | 231 | | 8 |
| Crawler Tractors | | 212 | | 8 |
| Crushing/Proc. Equipment | | 85 | | 8 |
| Excavators | | 158 | | 8 |
| Forklifts | | 89 | | 8 |
| Generator Sets | | 84 | | 8 |
| Graders | | 187 | 4.00 | 8 |
| Off-Highway Tractors | | 124 | | 8 |
| Off-Highway Trucks | | 402 | | 8 |
| Other Construction Equipment | | 172 | | 8 |
| Other General Industrial Equipment | | 88 | | 8 |
| Other Material Handling Equipment | | 168 | | 8 |
| Pavers | | 130 | | 8 |
| Paving Equipment | | 132 | | 8 |
| Plate Compactors | | 8 | | 8 |
| Pressure Washers | | 13 | | 8 |
| Pumps | | 84 | | 8 |
| Rollers | | 80 | | 8 |
| Rough Terrain Forklifts | | 100 | | 8 |
| Rubber Tired Dozers | | 247 | | 8 |
| Rubber Tired Loaders | | 203 | | 8 |
| Scrapers | | 367 | 4.00 | 8 |
| Signal Boards | | 6 | | 8 |
| Skid Steer Loaders | | 65 | | 8 |
| Surfacing Equipment | | 263 | | 8 |
| Sweepers/Scrubbers | | 64 | | 8 |
| Tractors/Loaders/Backhoes | | 97 | | 8 |
| Trenchers | | 78 | | 8 |
| Welders | | 46 | | 8 |

END OF DATA ENTRY SHEET

Road Construction Emissions Model, Version 9.0.0

| Daily Emission Estimates for -> Related Bristol Off-Site Improvements (Mitigated) | | | | | | | | | | | | | Total | Exhaust | Fugitive Dust | Total | Exhaust | Fugitive Dust |
|---|---------------|--------------|---------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|---------------|---------------|---------------|---------------|----------------|---------------|-------|---------|---------------|
| Project Phases (Pounds) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | PM10 (lbs/day) | PM10 (lbs/day) | PM10 (lbs/day) | PM2.5 (lbs/day) | PM2.5 (lbs/day) | PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) | | | | |
| Grubbing/Land Clearing | 0.68 | 14.21 | 2.87 | 3.18 | 0.18 | 3.00 | 0.77 | 0.14 | 0.62 | 0.02 | 2,256.44 | 0.59 | 0.04 | 2,284.42 | | | | |
| Grading/Excavation | 2.31 | 47.53 | 6.07 | 3.39 | 0.39 | 3.00 | 0.93 | 0.31 | 0.62 | 0.08 | 7,569.33 | 2.19 | 0.10 | 7,653.12 | | | | |
| Drainage/Utilities/Sub-Grade | 1.35 | 29.41 | 5.93 | 3.34 | 0.34 | 3.00 | 0.87 | 0.25 | 0.62 | 0.06 | 5,441.76 | 0.84 | 0.19 | 5,518.47 | | | | |
| Paving | 0.92 | 21.10 | 10.08 | 0.45 | 0.45 | 0.00 | 0.27 | 0.27 | 0.00 | 0.06 | 6,382.76 | 0.76 | 0.60 | 6,580.82 | | | | |
| Maximum (pounds/day) | 2.31 | 47.53 | 10.08 | 3.39 | 0.45 | 3.00 | 0.93 | 0.31 | 0.62 | 0.08 | 7,569.33 | 2.19 | 0.60 | 7,653.12 | | | | |
| Total (tons/construction project) | 0.22 | 4.59 | 0.83 | 0.38 | 0.05 | 0.34 | 0.11 | 0.04 | 0.07 | 0.01 | 821.28 | 0.19 | 0.03 | 833.58 | | | | |

Notes: Project Start Year -> 2026
 Project Length (months) -> 12
 Total Project Area (acres) -> 19
 Maximum Area Disturbed/Day (acres) -> 0
 Water Truck Used? -> Yes

| Phase | Total Material Imported/Exported Volume (yd ³ /day) | | Daily VMT (miles/day) | | | |
|------------------------------|--|---------|-----------------------|-----------------|----------------|-------------|
| | Soil | Asphalt | Soil Hauling | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing | 0 | 0 | 0 | 0 | 320 | 40 |
| Grading/Excavation | 0 | 0 | 0 | 0 | 920 | 40 |
| Drainage/Utilities/Sub-Grade | 100 | 0 | 210 | 0 | 680 | 40 |
| Paving | 0 | 500 | 0 | 960 | 520 | 40 |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

| Total Emission Estimates by Phase for -> Related Bristol Off-Site Improvements (Mitigated) | | | | | | | | | | | | | Total | Exhaust | Fugitive Dust | Total | Exhaust | Fugitive Dust |
|--|------------------|-----------------|------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------------|------------------|------------------|------------------|-----------------|---------------|-------|---------|---------------|
| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e) | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | PM10 (tons/phase) | PM10 (tons/phase) | PM10 (tons/phase) | PM2.5 (tons/phase) | PM2.5 (tons/phase) | PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) | | | | |
| Grubbing/Land Clearing | 0.01 | 0.19 | 0.04 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 29.79 | 0.01 | 0.00 | 27.36 | | | | |
| Grading/Excavation | 0.14 | 2.82 | 0.36 | 0.20 | 0.02 | 0.18 | 0.06 | 0.02 | 0.04 | 0.00 | 449.62 | 0.13 | 0.01 | 412.41 | | | | |
| Drainage/Utilities/Sub-Grade | 0.05 | 1.16 | 0.23 | 0.13 | 0.01 | 0.12 | 0.03 | 0.01 | 0.02 | 0.00 | 215.49 | 0.03 | 0.01 | 198.25 | | | | |
| Paving | 0.02 | 0.42 | 0.20 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.00 | 126.38 | 0.01 | 0.01 | 118.21 | | | | |
| Maximum (tons/phase) | 0.14 | 2.82 | 0.36 | 0.20 | 0.02 | 0.18 | 0.06 | 0.02 | 0.04 | 0.00 | 449.62 | 0.13 | 0.01 | 412.41 | | | | |
| Total (tons/construction project) | 0.22 | 4.59 | 0.83 | 0.38 | 0.05 | 0.34 | 0.11 | 0.04 | 0.07 | 0.01 | 821.28 | 0.19 | 0.03 | 756.22 | | | | |

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.


The CO2e emissions are reported as metric tons per phase.

Road Construction Emissions Model
Data Entry Worksheet

Note: Required data input sections have a yellow background.
Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background.
The user is required to enter information in cells D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

Input Type

| | | |
|---|-------|--|
| Project Name | | Related Bristol Off-Site Improvements (Mitigated) |
| Construction Start Year | 2026 | Enter a Year between 2014 and 2040 (inclusive) |
| Project Type | 2 | 1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway 2) Road Widening : Project to add a new lane to an existing roadway 3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane 4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction |
| Project Construction Time | 12.00 | months |
| Working Days per Month | 22.00 | days (assume 22 if unknown) |
| Predominant Soil/Type: Enter 1, 2, or 3 <small>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J19 to J22)</small> | 2 | 1) Sand Gravel : Use for quaternary deposits (Delta/West County) 2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta) 3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta) |
| Project Length | 1.50 | miles |
| Total Project Area | 19.00 | acres |
| Maximum Area Disturbed/Day | 0.30 | acres |
| Water Trucks Used? | 1 | 1. Yes 2. No |



To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/E ages/geodjmaps.aspx#facnalseries

Material Hauling Quantity Input

| Material Type | Phase | Haul Truck Capacity (yd ³) (assume 20 if unknown) | Import Volume (yd ³ /day) | Export Volume (yd ³ /day) |
|---------------|------------------------------|---|--------------------------------------|--------------------------------------|
| Soil | Grubbing/Land Clearing | 16.00 | 0.00 | 0.00 |
| | Grading/Excavation | 16.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 16.00 | 0.00 | 100.00 |
| | Paving | 16.00 | 0.00 | 0.00 |
| Asphalt | Grubbing/Land Clearing | 16.00 | 0.00 | 0.00 |
| | Grading/Excavation | 16.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 16.00 | 0.00 | 0.00 |
| | Paving | 16.00 | 500.00 | 0.00 |

Mitigation Options

| | | |
|---|--|--|
| On-road Fleet Emissions Mitigation | 2010 and Newer On-road Vehicles Fleet | <small>Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer</small> |
| Off-road Equipment Emissions Mitigation | Tier 4 Equipment | <small>Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation).</small> |
| Will all off-road equipment be tier 4? | All Tier 4 Equipment | <small>Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard</small> |

The remaining sections of this sheet contain areas that can be modified by the user, although those modifications are optional.

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

| Construction Periods | User Override of Construction Months | Program Calculated Months | User Override of Phase Starting Date | Program Default Phase Starting Date |
|------------------------------|--------------------------------------|---------------------------|--------------------------------------|-------------------------------------|
| Grubbing/Land Clearing | | 1.20 | | 1/1/2026 |
| Grading/Excavation | | 5.40 | | 2/7/2026 |
| Drainage/Utilities/Sub-Grade | | 3.60 | | 7/22/2026 |
| Paving | | 1.80 | | 11/9/2026 |
| Totals (Months) | | 12 | | |

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

| Soil Hauling Emissions | | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT | | | | | |
|--|------------|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------------|------------|------------|-------------|--|
| User Input | | | | | | | | | | | |
| Miles/round trip: Grubbing/Land Clearing | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Grading/Excavation | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Drainage/Utilities/Sub-Grade | | 30.00 | | | 7 | 210.00 | | | | | |
| Miles/round trip: Paving | | 30.00 | | | 0 | 0.00 | | | | | |
| 2010+ Model Year Mitigation Option Emission Rates | | | | | | | | | | | |
| | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Grubbing/Land Clearing (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Grading/Excavation (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Drainage/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Paving (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,651.31 | 0.00 | 0.26 | 1,728.69 | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Drainage/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Hauling Emissions | | | | | | | | | | | |
| | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.01 | 0.19 | 1.50 | 0.05 | 0.02 | 0.01 | 765.05 | 0.00 | 0.12 | 800.90 | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.01 | 0.06 | 0.00 | 0.00 | 0.00 | 30.30 | 0.00 | 0.00 | 31.72 | |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Total tons per construction project | 0.00 | 0.01 | 0.06 | 0.00 | 0.00 | 0.00 | 30.30 | 0.00 | 0.00 | 31.72 | |

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

| Asphalt Hauling Emissions | | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT | | | | | |
|--|------------|-----------------------------------|--------------------------------------|--|--------------------------------|----------------------|------------|------------|------------|-------------|--|
| User Input | | | | | | | | | | | |
| Miles/round trip: Grubbing/Land Clearing | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Grading/Excavation | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Drainage/Utilities/Sub-Grade | | 30.00 | | | 0 | 0.00 | | | | | |
| Miles/round trip: Paving | | 30.00 | | | 32 | 960.00 | | | | | |
| 2010+ Model Year Mitigation Option Emission Rates | | | | | | | | | | | |
| | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Grubbing/Land Clearing (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Grading/Excavation (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Drainage/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | |
| Paving (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,651.31 | 0.00 | 0.26 | 1,728.69 | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Drainage/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Emissions | | | | | | | | | | | |
| | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Pounds per day - Paving | 0.06 | 0.88 | 6.87 | 0.24 | 0.10 | 0.03 | 3,494.90 | 0.00 | 0.55 | 3,658.68 | |
| Tons per const. Period - Paving | 0.00 | 0.02 | 0.14 | 0.00 | 0.00 | 0.00 | 69.20 | 0.00 | 0.01 | 72.44 | |
| Total tons per construction project | 0.00 | 0.02 | 0.14 | 0.00 | 0.00 | 0.00 | 69.20 | 0.00 | 0.01 | 72.44 | |

Note: Worker commute default values can be overridden in cells D121 through D126.

| Worker Commute Emissions | | User Override of Worker Commute Default Values | | Default Values | | Calculated | | Calculated | | |
|---|------------|--|------------|----------------|--------------|------------|------------|------------|------------|-------------|
| User Input | | Default Values | | Daily Trips | | Daily VMT | | | | |
| Miles/ one-way trip | | 20 | | | | | | | | |
| One-way trips/day | | 2 | | | | | | | | |
| No. of employees: Grubbing/Land Clearing | | 8 | | 16 | | 320.00 | | | | |
| No. of employees: Grading/Excavation | | 23 | | 46 | | 920.00 | | | | |
| No. of employees: Drainage/Utilities/Sub-Grade | | 17 | | 34 | | 680.00 | | | | |
| No. of employees: Paving | | 13 | | 26 | | 520.00 | | | | |
| Emission Rates | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Grubbing/Land Clearing (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Grading/Excavation (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.85 | 0.00 | 0.01 | 287.41 |
| Paving (grams/mile) | 0.01 | 0.72 | 0.05 | 0.05 | 0.02 | 0.00 | 285.39 | 0.00 | 0.00 | 286.94 |
| Grubbing/Land Clearing (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Grading/Excavation (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.59 | 0.06 | 0.03 | 71.10 |
| Paving (grams/trip) | 0.87 | 2.47 | 0.23 | 0.00 | 0.00 | 0.00 | 61.49 | 0.06 | 0.03 | 70.98 |
| Emissions | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Pounds per day - Grubbing/Land Clearing | 0.04 | 0.60 | 0.04 | 0.03 | 0.01 | 0.00 | 203.83 | 0.00 | 0.00 | 205.27 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 2.69 | 0.00 | 0.00 | 2.71 |
| Pounds per day - Grading/Excavation | 0.11 | 1.72 | 0.12 | 0.09 | 0.04 | 0.01 | 586.02 | 0.01 | 0.01 | 590.14 |
| Tons per const. Period - Grading/Excavation | 0.01 | 0.10 | 0.01 | 0.01 | 0.00 | 0.00 | 34.81 | 0.00 | 0.00 | 35.05 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.08 | 1.27 | 0.09 | 0.07 | 0.03 | 0.00 | 433.14 | 0.01 | 0.01 | 436.19 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 17.15 | 0.00 | 0.00 | 17.27 |
| Pounds per day - Paving | 0.06 | 0.97 | 0.07 | 0.05 | 0.02 | 0.00 | 330.69 | 0.01 | 0.01 | 333.02 |
| Tons per const. Period - Paving | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 6.55 | 0.00 | 0.00 | 6.59 |
| Total tons per construction project | 0.01 | 0.18 | 0.01 | 0.01 | 0.00 | 0.00 | 61.20 | 0.00 | 0.00 | 61.63 |

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

| Water Truck Emissions | | User Override of Program Estimate of | | User Override of Truck | | Default Values | | Calculated | | User Override of | | Default Values | | Calculated | |
|--|------------|--------------------------------------|------------|-------------------------|--------------|--------------------------|------------|------------|------------|------------------|--|------------------|--|------------|--|
| User Input | | Number of Water Trucks | | Round Trips/Vehicle/Day | | Round Trips/Vehicles/Day | | Trips/day | | Miles/Round Trip | | Miles/Round Trip | | Daily VMT | |
| Grubbing/Land Clearing - Exhaust | | 1 | | | | 5 | | 5 | | | | 8.00 | | 40.00 | |
| Grading/Excavation - Exhaust | | 1 | | | | 5 | | 5 | | | | 8.00 | | 40.00 | |
| Drainage/Utilities/Subgrade | | 1 | | | | 5 | | 5 | | | | 8.00 | | 40.00 | |
| Paving | | 1 | | | | 5 | | 5 | | | | 8.00 | | 40.00 | |
| 2010+ Model Year Mitigation Option Emission Rates | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | | | | | |
| Grubbing/Land Clearing (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | | | | | |
| Grading/Excavation (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | | | | | |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,652.48 | 0.00 | 0.26 | 1,729.92 | | | | | |
| Paving (grams/mile) | 0.03 | 0.41 | 3.10 | 0.11 | 0.05 | 0.02 | 1,651.31 | 0.00 | 0.26 | 1,728.69 | | | | | |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Paving (grams/trip) | 0.00 | 0.00 | 4.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| Emissions | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | | | | | |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.04 | 0.32 | 0.01 | 0.00 | 0.00 | 145.72 | 0.00 | 0.02 | 152.55 | | | | | |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.92 | 0.00 | 0.00 | 2.01 | | | | | |
| Pounds per day - Grading/Excavation | 0.00 | 0.04 | 0.32 | 0.01 | 0.00 | 0.00 | 145.72 | 0.00 | 0.02 | 152.55 | | | | | |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 8.66 | 0.00 | 0.00 | 9.06 | | | | | |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.04 | 0.32 | 0.01 | 0.00 | 0.00 | 145.72 | 0.00 | 0.02 | 152.55 | | | | | |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 5.77 | 0.00 | 0.00 | 6.04 | | | | | |
| Pounds per day - Paving | 0.00 | 0.04 | 0.32 | 0.01 | 0.00 | 0.00 | 145.62 | 0.00 | 0.02 | 152.44 | | | | | |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 2.88 | 0.00 | 0.00 | 3.02 | | | | | |
| Total tons per construction project | 0.00 | 0.00 | 0.04 | 0.00 | 0.00 | 0.00 | 19.23 | 0.00 | 0.00 | 20.13 | | | | | |

Note: Fugitive dust default values can be overridden in cells D183 through D185.

| Fugitive Dust | | User Override of Max Acreage Disturbed/Day | | PM10 | PM10 | PM2.5 | PM2.5 |
|---|--|--|--|------------|-----------------|------------|-----------------|
| | | Default Maximum Acreage/Day | | pounds/day | tons/per period | pounds/day | tons/per period |
| Fugitive Dust - Grubbing/Land Clearing | | 0.30 | | 3.00 | 0.04 | 0.62 | 0.01 |
| Fugitive Dust - Grading/Excavation | | 0.30 | | 3.00 | 0.18 | 0.62 | 0.04 |
| Fugitive Dust - Drainage/Utilities/Subgrade | | 0.30 | | 3.00 | 0.12 | 0.62 | 0.02 |

| Off-Road Equipment Emissions | | | | | | | | | | | | | | | |
|--|------------------------|---|---|----------------|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Grubbing/Land Clearing | | Default Number of Vehicles | Mitigation Option Override of | Default | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| Override of Default Number of Vehicles | | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | |
| | | | | Tier 4 | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1 | | | Tier 4 | Crawler Tractors | 0.24 | 4.18 | 0.48 | 0.02 | 0.02 | 0.01 | 758.27 | 0.25 | 0.01 | |
| | | | | Tier 4 | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 2 | | | Tier 4 | Excavators | 0.32 | 7.84 | 0.64 | 0.03 | 0.03 | 0.01 | 1,006.68 | 0.32 | 0.01 | |
| | | | | Tier 4 | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 3 | | | Tier 4 | Signal Boards | 0.08 | 1.56 | 1.38 | 0.08 | 0.07 | 0.00 | 147.94 | 0.02 | 0.00 | |
| | | | | Tier 4 | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Tractors/Loaders/Backhoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | | | | Tier 4 | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| User-Defined Off-road Equipment | | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab | | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| | Number of Vehicles | | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Grubbing/Land Clearing | | | pounds per day | 0.64 | 13.58 | 2.50 | 0.13 | 0.12 | 0.02 | 1,906.89 | 0.58 | 0.02 | 1,926.60 | |
| | Grubbing/Land Clearing | | | tons per phase | 0.01 | 0.18 | 0.03 | 0.00 | 0.00 | 0.00 | 25.17 | 0.01 | 0.00 | 25.43 | |

| Grading/Excavation | | Default Number of Vehicles | Mitigation Option Override of | Default | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
|--|--------------------|---|----------------------------------|---------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | Tier 4 | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0 | | | Tier 4 | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1 | | | Tier 4 | Crawler Tractors | 0.24 | 4.18 | 0.48 | 0.02 | 0.02 | 0.01 | 758.27 | 0.25 | 0.01 | 766.45 |
| | | | Tier 4 | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3 | | | Tier 4 | Excavators | 0.48 | 11.75 | 0.95 | 0.05 | 0.04 | 0.02 | 1,501.02 | 0.49 | 0.01 | 1,512.20 |
| | | | Tier 4 | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | | | Tier 4 | Graders | 0.20 | 3.52 | 0.41 | 0.02 | 0.02 | 0.01 | 640.24 | 0.21 | 0.01 | 647.14 |
| | | | Tier 4 | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | | | Tier 4 | Rollers | 0.16 | 3.97 | 0.32 | 0.02 | 0.01 | 0.01 | 508.12 | 0.16 | 0.00 | 513.60 |
| | | | Tier 4 | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1 | | | Tier 4 | Rubber Tired Loaders | 0.19 | 3.35 | 0.39 | 0.02 | 0.02 | 0.01 | 605.62 | 0.20 | 0.01 | 612.16 |
| 2 | | | Tier 4 | Scrapers | 0.47 | 8.08 | 0.93 | 0.05 | 0.04 | 0.02 | 1,468.15 | 0.47 | 0.01 | 1,483.97 |
| 3 | | | Tier 4 | Signal Boards | 0.08 | 1.56 | 1.38 | 0.08 | 0.07 | 0.00 | 147.94 | 0.02 | 0.00 | 148.66 |
| | | | Tier 4 | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | | | Tier 4 | Tractors/Loaders/Backhoes | 0.38 | 9.37 | 0.76 | 0.04 | 0.03 | 0.01 | 1,208.22 | 0.39 | 0.01 | 1,221.22 |
| | | | Tier 4 | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Tier 4 | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| User-Defined Off-road Equipment | | If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| Number of Vehicles | | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Grading/Excavation | | pounds per day | 2.20 | 45.78 | 5.63 | 0.29 | 0.27 | 0.07 | 6,837.58 | 2.18 | 0.06 | 6,910.43 | |
| | Grading/Excavation | | tons per phase | 0.13 | 2.72 | 0.33 | 0.02 | 0.02 | 0.00 | 406.15 | 0.13 | 0.00 | 410.48 | |

| Drainage/Utilities/Subgrade | Default | | Mitigation Option | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
|---|------------------------------|---|---------------------------------|----------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Number of Vehicles | Override of | Default | Equipment Tier | | | | | | | | | | |
| Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 1 | | Tier 4 | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Air Compressors | 0.10 | 2.44 | 0.20 | 0.01 | 0.01 | 0.00 | 375.26 | 0.02 | 0.00 | 0.00 | 376.62 |
| | | Tier 4 | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1 | | Tier 4 | Generator Sets | 0.16 | 4.06 | 0.33 | 0.02 | 0.02 | 0.01 | 623.04 | 0.02 | 0.00 | 0.00 | 625.01 |
| | | Tier 4 | Graders | 0.10 | 1.76 | 0.20 | 0.01 | 0.01 | 0.00 | 320.12 | 0.10 | 0.00 | 0.00 | 323.57 |
| | | Tier 4 | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1 | | Tier 4 | Plate Compactors | 0.02 | 0.36 | 0.32 | 0.02 | 0.02 | 0.00 | 34.48 | 0.00 | 0.00 | 0.00 | 34.65 |
| | | Tier 4 | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Pumps | 0.16 | 4.06 | 0.33 | 0.02 | 0.02 | 0.01 | 623.04 | 0.03 | 0.00 | 0.00 | 625.06 |
| | | Tier 4 | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Rough Terrain Forklifts | 0.11 | 2.61 | 0.21 | 0.01 | 0.01 | 0.00 | 333.72 | 0.11 | 0.00 | 0.00 | 337.31 |
| | | Tier 4 | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Scrapers | 0.23 | 4.04 | 0.47 | 0.02 | 0.02 | 0.01 | 734.07 | 0.24 | 0.01 | 0.00 | 741.99 |
| | | Tier 4 | Signal Boards | 0.08 | 1.56 | 1.38 | 0.08 | 0.07 | 0.00 | 147.94 | 0.02 | 0.00 | 0.00 | 148.66 |
| | | Tier 4 | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Tractors/Loaders/Backhoes | 0.28 | 7.03 | 0.57 | 0.03 | 0.03 | 0.01 | 906.17 | 0.29 | 0.01 | 0.00 | 915.91 |
| | | Tier 4 | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Tier 4 | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| User-Defined Off-road Equipment | | | | | | | | | | | | | | |
| <i>If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab</i> | | | | | | | | | | | | | | |
| Number of Vehicles | | Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | Drainage/Utilities/Sub-Grade | | pounds per day | 1.25 | 27.92 | 4.01 | 0.21 | 0.19 | 0.04 | 4,097.83 | 0.83 | 0.03 | 4,128.82 | |
| | Drainage/Utilities/Sub-Grade | | tons per phase | 0.05 | 1.11 | 0.16 | 0.01 | 0.01 | 0.00 | 162.27 | 0.03 | 0.00 | 163.50 | |

| Paving | Default | | Mitigation Option | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
|--|--|------------------|---|----------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | Number of Vehicles | Override of | Default | Equipment Tier | | | | | | | | | | |
| | Override of Default Number of Vehicles | Program-estimate | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | | Tier 4 | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 1 | | Tier 4 | Pavers | 0.14 | 3.56 | 0.29 | 0.01 | 0.01 | 0.00 | 454.99 | 0.15 | 0.00 |
| | | 1 | | Tier 4 | Paving Equipment | 0.13 | 3.10 | 0.25 | 0.01 | 0.01 | 0.00 | 394.32 | 0.13 | 0.00 |
| | | | | Tier 4 | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 2 | | Tier 4 | Rollers | 0.16 | 3.97 | 0.32 | 0.02 | 0.01 | 0.01 | 508.12 | 0.16 | 0.00 |
| | | | | Tier 4 | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 3 | | Tier 4 | Signal Boards | 0.08 | 1.56 | 1.38 | 0.08 | 0.07 | 0.00 | 147.94 | 0.02 | 0.00 |
| | | | | Tier 4 | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 3 | | Tier 4 | Tractors/Loaders/Backhoes | 0.28 | 7.03 | 0.57 | 0.03 | 0.03 | 0.01 | 906.17 | 0.29 | 0.01 |
| | | | | Tier 4 | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | | Tier 4 | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| User-Defined Off-road Equipment | | | | | <i>If non-default vehicles are used, please provide information in "Non-default Off-road Equipment" tab</i> | | | | | | | | | |
| | Number of Vehicles | | Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 | N2O | CO2e |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Paving | | pounds per day | 0.79 | 19.22 | 2.82 | 0.15 | 0.14 | 0.03 | 2,411.54 | 0.75 | 0.02 | 2,436.68 |
| | | Paving | | tons per phase | 0.02 | 0.38 | 0.06 | 0.00 | 0.00 | 0.00 | 47.75 | 0.01 | 0.00 | 48.25 |
| Total Emissions all Phases (tons per construction period) => | | | | | 0.20 | 4.38 | 0.58 | 0.03 | 0.03 | 0.01 | 641.35 | 0.18 | 0.01 | 647.66 |

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

| Equipment | User Override of Horsepower | Default Values Horsepower | User Override of Hours/day | Default Values Hours/day |
|------------------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|
| Aerial Lifts | | 63 | | 8 |
| Air Compressors | | 78 | | 8 |
| Bore/Drill Rigs | | 221 | | 8 |
| Cement and Mortar Mixers | | 9 | | 8 |
| Concrete/Industrial Saws | | 81 | | 8 |
| Cranes | | 231 | | 8 |
| Crawler Tractors | | 212 | | 8 |
| Crushing/Proc. Equipment | | 85 | | 8 |
| Excavators | | 158 | | 8 |
| Forklifts | | 89 | | 8 |
| Generator Sets | | 84 | | 8 |
| Graders | | 187 | 4.00 | 8 |
| Off-Highway Tractors | | 124 | | 8 |
| Off-Highway Trucks | | 402 | | 8 |
| Other Construction Equipment | | 172 | | 8 |
| Other General Industrial Equipment | | 88 | | 8 |
| Other Material Handling Equipment | | 168 | | 8 |
| Pavers | | 130 | | 8 |
| Paving Equipment | | 132 | | 8 |
| Plate Compactors | | 8 | | 8 |
| Pressure Washers | | 13 | | 8 |
| Pumps | | 84 | | 8 |
| Rollers | | 80 | | 8 |
| Rough Terrain Forklifts | | 100 | | 8 |
| Rubber Tired Dozers | | 247 | | 8 |
| Rubber Tired Loaders | | 203 | | 8 |
| Scrapers | | 367 | 4.00 | 8 |
| Signal Boards | | 6 | | 8 |
| Skid Steer Loaders | | 65 | | 8 |
| Surfacing Equipment | | 263 | | 8 |
| Sweepers/Scrubbers | | 64 | | 8 |
| Tractors/Loaders/Backhoes | | 97 | | 8 |
| Trenchers | | 78 | | 8 |
| Welders | | 46 | | 8 |

END OF DATA ENTRY SHEET

Bristol P1 Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

| Data Field | Value |
|-----------------------------|--|
| Project Name | Bristol P1 Existing |
| Operational Year | 2023 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.69633585549636, -117.88747233145176 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 |
|--------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Regional Shopping Center | 244 | 1000sqft | 5.60 | 244,120 | 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. | 57.9 | 60.4 | 26.7 | 291 | 0.51 | 0.42 | 9.90 | 10.3 | 0.40 | 1.94 | 2.34 | 173 | 54,530 | 54,703 | 21.5 | 2.73 | 221 | 56,276 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 53.5 | 56.2 | 28.8 | 266 | 0.49 | 0.39 | 9.90 | 10.3 | 0.36 | 1.94 | 2.30 | 173 | 52,515 | 52,688 | 21.8 | 2.87 | 6.88 | 54,094 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 55.2 | 57.8 | 27.9 | 272 | 0.46 | 0.39 | 9.16 | 9.54 | 0.37 | 1.79 | 2.16 | 173 | 49,548 | 49,721 | 21.6 | 2.75 | 89.1 | 51,170 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 10.1 | 10.6 | 5.09 | 49.7 | 0.08 | 0.07 | 1.67 | 1.74 | 0.07 | 0.33 | 0.39 | 28.6 | 8,203 | 8,232 | 3.58 | 0.46 | 14.7 | 8,472 |

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 | 54.1 | 51.0 | 26.2 | 270 | 0.51 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 51,566 | 51,566 | 3.86 | 2.62 | 220 | 52,664 |
| Area | 3.77 | 9.32 | 0.18 | 21.2 | < 0.005 | 0.03 | — | 0.03 | 0.04 | — | 0.04 | — | 87.3 | 87.3 | < 0.005 | < 0.005 | — | 87.6 |
| Energy | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 2,759 | 2,759 | 0.26 | 0.03 | — | 2,773 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | 57.9 | 60.4 | 26.7 | 291 | 0.51 | 0.42 | 9.90 | 10.3 | 0.40 | 1.94 | 2.34 | 173 | 54,530 | 54,703 | 21.5 | 2.73 | 221 | 56,276 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 53.5 | 50.3 | 28.4 | 266 | 0.49 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 49,639 | 49,639 | 4.14 | 2.76 | 5.71 | 50,569 |
| Area | — | 5.84 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 2,759 | 2,759 | 0.26 | 0.03 | — | 2,773 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | 53.5 | 56.2 | 28.8 | 266 | 0.49 | 0.39 | 9.90 | 10.3 | 0.36 | 1.94 | 2.30 | 173 | 52,515 | 52,688 | 21.8 | 2.87 | 6.88 | 54,094 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 52.6 | 49.6 | 27.4 | 257 | 0.46 | 0.34 | 9.16 | 9.50 | 0.31 | 1.79 | 2.11 | — | 46,612 | 46,612 | 3.99 | 2.64 | 87.9 | 47,586 |
| Area | 2.58 | 8.23 | 0.12 | 14.5 | < 0.005 | 0.02 | — | 0.02 | 0.03 | — | 0.03 | — | 59.8 | 59.8 | < 0.005 | < 0.005 | — | 60.0 |
| Energy | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 2,759 | 2,759 | 0.26 | 0.03 | — | 2,773 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | 55.2 | 57.8 | 27.9 | 272 | 0.46 | 0.39 | 9.16 | 9.54 | 0.37 | 1.79 | 2.16 | 173 | 49,548 | 49,721 | 21.6 | 2.75 | 89.1 | 51,170 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 9.60 | 9.05 | 4.99 | 47.0 | 0.08 | 0.06 | 1.67 | 1.73 | 0.06 | 0.33 | 0.38 | — | 7,717 | 7,717 | 0.66 | 0.44 | 14.5 | 7,878 |
| Area | 0.47 | 1.50 | 0.02 | 2.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.90 | 9.90 | < 0.005 | < 0.005 | — | 9.94 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|---------|------|------|---------|------|------|------|------|------|------|------|-------|-------|------|---------|------|-------|
| Energy | 0.01 | < 0.005 | 0.07 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 457 | 457 | 0.04 | < 0.005 | — | 459 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.74 | 19.5 | 25.2 | 0.59 | 0.01 | — | 44.2 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 22.9 | 0.00 | 22.9 | 2.29 | 0.00 | — | 80.0 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.19 | 0.19 |
| Total | 10.1 | 10.6 | 5.09 | 49.7 | 0.08 | 0.07 | 1.67 | 1.74 | 0.07 | 0.33 | 0.39 | 28.6 | 8,203 | 8,232 | 3.58 | 0.46 | 14.7 | 8,472 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 54.1 | 51.0 | 26.2 | 270 | 0.51 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 51,566 | 51,566 | 3.86 | 2.62 | 220 | 52,664 |
| Total | 54.1 | 51.0 | 26.2 | 270 | 0.51 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 51,566 | 51,566 | 3.86 | 2.62 | 220 | 52,664 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 53.5 | 50.3 | 28.4 | 266 | 0.49 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 49,639 | 49,639 | 4.14 | 2.76 | 5.71 | 50,569 |
| Total | 53.5 | 50.3 | 28.4 | 266 | 0.49 | 0.36 | 9.90 | 10.3 | 0.33 | 1.94 | 2.27 | — | 49,639 | 49,639 | 4.14 | 2.76 | 5.71 | 50,569 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 9.60 | 9.05 | 4.99 | 47.0 | 0.08 | 0.06 | 1.67 | 1.73 | 0.06 | 0.33 | 0.38 | — | 7,717 | 7,717 | 0.66 | 0.44 | 14.5 | 7,878 |

| | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Total | 9.60 | 9.05 | 4.99 | 47.0 | 0.08 | 0.06 | 1.67 | 1.73 | 0.06 | 0.33 | 0.38 | — | 7,717 | 7,717 | 0.66 | 0.44 | 14.5 | 7,878 |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 2,290 | 2,290 | 0.22 | 0.03 | — | 2,303 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 2,290 | 2,290 | 0.22 | 0.03 | — | 2,303 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 2,290 | 2,290 | 0.22 | 0.03 | — | 2,303 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 2,290 | 2,290 | 0.22 | 0.03 | — | 2,303 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 379 | 379 | 0.04 | < 0.005 | — | 381 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 379 | 379 | 0.04 | < 0.005 | — | 381 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 468 | 468 | 0.04 | < 0.005 | — | 470 |
| Total | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 468 | 468 | 0.04 | < 0.005 | — | 470 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 468 | 468 | 0.04 | < 0.005 | — | 470 |
| Total | 0.04 | 0.02 | 0.39 | 0.33 | < 0.005 | 0.03 | — | 0.03 | 0.03 | — | 0.03 | — | 468 | 468 | 0.04 | < 0.005 | — | 470 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.01 | < 0.005 | 0.07 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 77.5 | 77.5 | 0.01 | < 0.005 | — | 77.8 |
| Total | 0.01 | < 0.005 | 0.07 | 0.06 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 77.5 | 77.5 | 0.01 | < 0.005 | — | 77.8 |

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 | — | 5.22 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Architectural Coatings | — | 0.62 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 3.77 | 3.48 | 0.18 | 21.2 | < 0.005 | 0.03 | — | 0.03 | 0.04 | — | 0.04 | — | 87.3 | 87.3 | < 0.005 | < 0.005 | — | 87.6 |
| Total | 3.77 | 9.32 | 0.18 | 21.2 | < 0.005 | 0.03 | — | 0.03 | 0.04 | — | 0.04 | — | 87.3 | 87.3 | < 0.005 | < 0.005 | — | 87.6 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 5.22 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.62 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | 5.84 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.95 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.11 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.47 | 0.44 | 0.02 | 2.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.90 | 9.90 | < 0.005 | < 0.005 | — | 9.94 |
| Total | 0.47 | 1.50 | 0.02 | 2.65 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 9.90 | 9.90 | < 0.005 | < 0.005 | — | 9.94 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 34.7 | 118 | 152 | 3.56 | 0.09 | — | 267 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 5.74 | 19.5 | 25.2 | 0.59 | 0.01 | — | 44.2 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 5.74 | 19.5 | 25.2 | 0.59 | 0.01 | — | 44.2 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 138 | 0.00 | 138 | 13.8 | 0.00 | — | 483 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 22.9 | 0.00 | 22.9 | 2.29 | 0.00 | — | 80.0 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 22.9 | 0.00 | 22.9 | 2.29 | 0.00 | — | 80.0 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1.17 | 1.17 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.19 | 0.19 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.19 | 0.19 |

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 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 |
|--------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|------------|
| Regional Shopping Center | 8,132 | 8,132 | 8,132 | 2,968,048 | 27,487 | 30,718 | 30,718 | 10,369,831 |

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 | 366,180 | 122,060 | — |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|--------|------|-------|
|--------|------|-------|

| | | |
|-------------|--------|------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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) |
|--------------------------|----------------------|-----|--------|--------|-----------------------|
| Regional Shopping Center | 2,397,592 | 349 | 0.0330 | 0.0040 | 1,461,533 |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------|-------------------------|--------------------------|
| Regional Shopping Center | 18,082,584 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------|------------------|-------------------------|
| Regional Shopping Center | 256.33 | 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 |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. 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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |

| | |
|---------------------------------|------|
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |
| Unemployment | 3.58 |

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |

| | |
|--|-------------|
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |

| | |
|---------------------------------------|------|
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|--------------------------|-------------------|
| Operations: Vehicle Data | per traffic study |

Bristol P2 Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

| Data Field | Value |
|-----------------------------|---------------------------------------|
| Project Name | Bristol P2 Existing |
| Operational Year | 2023 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.698665945125796, -117.886274986746 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 |
|--------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Regional Shopping Center | 36.5 | 1000sqft | 0.84 | 36,520 | 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. | 8.66 | 9.03 | 4.00 | 43.6 | 0.08 | 0.06 | 1.48 | 1.54 | 0.06 | 0.29 | 0.35 | 25.8 | 8,160 | 8,186 | 3.22 | 0.41 | 33.1 | 8,421 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 8.01 | 8.41 | 4.31 | 39.8 | 0.07 | 0.06 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | 25.8 | 7,858 | 7,884 | 3.26 | 0.43 | 1.03 | 8,095 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 8.26 | 8.65 | 4.17 | 40.7 | 0.07 | 0.06 | 1.37 | 1.43 | 0.06 | 0.27 | 0.32 | 25.8 | 7,414 | 7,440 | 3.24 | 0.41 | 13.3 | 7,657 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 1.51 | 1.58 | 0.76 | 7.43 | 0.01 | 0.01 | 0.25 | 0.26 | 0.01 | 0.05 | 0.06 | 4.28 | 1,228 | 1,232 | 0.54 | 0.07 | 2.21 | 1,268 |

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 | 8.09 | 7.64 | 3.92 | 40.3 | 0.08 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,717 | 7,717 | 0.58 | 0.39 | 32.9 | 7,881 |
| Area | 0.56 | 1.39 | 0.03 | 3.17 | < 0.005 | < 0.005 | — | < 0.005 | 0.01 | — | 0.01 | — | 13.1 | 13.1 | < 0.005 | < 0.005 | — | 13.1 |
| Energy | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 413 | 413 | 0.04 | < 0.005 | — | 415 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Total | 8.66 | 9.03 | 4.00 | 43.6 | 0.08 | 0.06 | 1.48 | 1.54 | 0.06 | 0.29 | 0.35 | 25.8 | 8,160 | 8,186 | 3.22 | 0.41 | 33.1 | 8,421 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 8.00 | 7.53 | 4.26 | 39.8 | 0.07 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,428 | 7,428 | 0.62 | 0.41 | 0.85 | 7,567 |
| Area | — | 0.87 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 413 | 413 | 0.04 | < 0.005 | — | 415 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Total | 8.01 | 8.41 | 4.31 | 39.8 | 0.07 | 0.06 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | 25.8 | 7,858 | 7,884 | 3.26 | 0.43 | 1.03 | 8,095 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.87 | 7.42 | 4.10 | 38.5 | 0.07 | 0.05 | 1.37 | 1.42 | 0.05 | 0.27 | 0.32 | — | 6,975 | 6,975 | 0.60 | 0.39 | 13.2 | 7,121 |
| Area | 0.39 | 1.23 | 0.02 | 2.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 8.95 | 8.95 | < 0.005 | < 0.005 | — | 8.98 |
| Energy | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 413 | 413 | 0.04 | < 0.005 | — | 415 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Total | 8.26 | 8.65 | 4.17 | 40.7 | 0.07 | 0.06 | 1.37 | 1.43 | 0.06 | 0.27 | 0.32 | 25.8 | 7,414 | 7,440 | 3.24 | 0.41 | 13.3 | 7,657 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 1.44 | 1.35 | 0.75 | 7.03 | 0.01 | 0.01 | 0.25 | 0.26 | 0.01 | 0.05 | 0.06 | — | 1,155 | 1,155 | 0.10 | 0.07 | 2.18 | 1,179 |
| Area | 0.07 | 0.22 | < 0.005 | 0.40 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.48 | 1.48 | < 0.005 | < 0.005 | — | 1.49 |

| | | | | | | | | | | | | | | | | | | |
|---------|---------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|------|---------|------|-------|
| Energy | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 68.3 | 68.3 | 0.01 | < 0.005 | — | 68.7 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 0.86 | 2.91 | 3.77 | 0.09 | < 0.005 | — | 6.61 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 3.42 | 0.00 | 3.42 | 0.34 | 0.00 | — | 12.0 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03 | 0.03 |
| Total | 1.51 | 1.58 | 0.76 | 7.43 | 0.01 | 0.01 | 0.25 | 0.26 | 0.01 | 0.05 | 0.06 | 4.28 | 1,228 | 1,232 | 0.54 | 0.07 | 2.21 | 1,268 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 8.09 | 7.64 | 3.92 | 40.3 | 0.08 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,717 | 7,717 | 0.58 | 0.39 | 32.9 | 7,881 |
| Total | 8.09 | 7.64 | 3.92 | 40.3 | 0.08 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,717 | 7,717 | 0.58 | 0.39 | 32.9 | 7,881 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 8.00 | 7.53 | 4.26 | 39.8 | 0.07 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,428 | 7,428 | 0.62 | 0.41 | 0.85 | 7,567 |
| Total | 8.00 | 7.53 | 4.26 | 39.8 | 0.07 | 0.05 | 1.48 | 1.54 | 0.05 | 0.29 | 0.34 | — | 7,428 | 7,428 | 0.62 | 0.41 | 0.85 | 7,567 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 1.44 | 1.35 | 0.75 | 7.03 | 0.01 | 0.01 | 0.25 | 0.26 | 0.01 | 0.05 | 0.06 | — | 1,155 | 1,155 | 0.10 | 0.07 | 2.18 | 1,179 |

| | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Total | 1.44 | 1.35 | 0.75 | 7.03 | 0.01 | 0.01 | 0.25 | 0.26 | 0.01 | 0.05 | 0.06 | — | 1,155 | 1,155 | 0.10 | 0.07 | 2.18 | 1,179 |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 343 | 343 | 0.03 | < 0.005 | — | 345 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 343 | 343 | 0.03 | < 0.005 | — | 345 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 343 | 343 | 0.03 | < 0.005 | — | 345 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 343 | 343 | 0.03 | < 0.005 | — | 345 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 56.7 | 56.7 | 0.01 | < 0.005 | — | 57.0 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 56.7 | 56.7 | 0.01 | < 0.005 | — | 57.0 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 70.1 | 70.1 | 0.01 | < 0.005 | — | 70.3 |
| Total | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 70.1 | 70.1 | 0.01 | < 0.005 | — | 70.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 70.1 | 70.1 | 0.01 | < 0.005 | — | 70.3 |
| Total | 0.01 | < 0.005 | 0.06 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 70.1 | 70.1 | 0.01 | < 0.005 | — | 70.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.6 | 11.6 | < 0.005 | < 0.005 | — | 11.6 |
| Total | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 11.6 | 11.6 | < 0.005 | < 0.005 | — | 11.6 |

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 | — | 0.78 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|---------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Architectural Coatings | — | 0.09 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.56 | 0.52 | 0.03 | 3.17 | < 0.005 | < 0.005 | — | < 0.005 | 0.01 | — | 0.01 | — | 13.1 | 13.1 | < 0.005 | < 0.005 | — | 13.1 |
| Total | 0.56 | 1.39 | 0.03 | 3.17 | < 0.005 | < 0.005 | — | < 0.005 | 0.01 | — | 0.01 | — | 13.1 | 13.1 | < 0.005 | < 0.005 | — | 13.1 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.78 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.09 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | 0.87 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.14 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.02 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.07 | 0.07 | < 0.005 | 0.40 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.48 | 1.48 | < 0.005 | < 0.005 | — | 1.49 |
| Total | 0.07 | 0.22 | < 0.005 | 0.40 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 1.48 | 1.48 | < 0.005 | < 0.005 | — | 1.49 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 5.18 | 17.6 | 22.8 | 0.53 | 0.01 | — | 39.9 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 0.86 | 2.91 | 3.77 | 0.09 | < 0.005 | — | 6.61 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 0.86 | 2.91 | 3.77 | 0.09 | < 0.005 | — | 6.61 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 20.7 | 0.00 | 20.7 | 2.07 | 0.00 | — | 72.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 3.42 | 0.00 | 3.42 | 0.34 | 0.00 | — | 12.0 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 3.42 | 0.00 | 3.42 | 0.34 | 0.00 | — | 12.0 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.18 | 0.18 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03 | 0.03 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.03 | 0.03 |

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 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 |
|--------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Regional Shopping Center | 1,217 | 1,217 | 1,217 | 444,149 | 4,113 | 4,597 | 4,597 | 1,551,777 |

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 | 54,780 | 18,260 | — |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|--------|------|-------|
|--------|------|-------|

| | | |
|-------------|--------|------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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) |
|--------------------------|----------------------|-----|--------|--------|-----------------------|
| Regional Shopping Center | 358,676 | 349 | 0.0330 | 0.0040 | 218,643 |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------|-------------------------|--------------------------|
| Regional Shopping Center | 2,705,128 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------|------------------|-------------------------|
| Regional Shopping Center | 38.35 | 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 |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. 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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |

| | |
|---------------------------------|------|
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |
| Unemployment | 3.58 |

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |

| | |
|--|-------------|
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |

| | |
|---------------------------------------|------|
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|--------------------------|-------------------|
| Operations: Vehicle Data | per traffic study |

Bristol P3 Existing 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 | Bristol P3 Existing |
| Operational Year | 2023 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 19.6 |
| Location | 33.69852878405041, -117.88747102650699 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5946 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.8 |

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 |
|--------------------------|------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Regional Shopping Center | 184 | 1000sqft | 4.23 | 184,420 | 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. | 43.7 | 45.6 | 20.2 | 220 | 0.38 | 0.31 | 7.48 | 7.79 | 0.30 | 1.47 | 1.77 | 131 | 41,183 | 41,313 | 16.2 | 2.06 | 167 | 42,502 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 40.4 | 42.4 | 21.8 | 201 | 0.37 | 0.29 | 7.48 | 7.77 | 0.27 | 1.47 | 1.74 | 131 | 39,661 | 39,791 | 16.4 | 2.17 | 5.19 | 40,853 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 41.7 | 43.7 | 21.1 | 206 | 0.35 | 0.29 | 6.92 | 7.21 | 0.28 | 1.36 | 1.63 | 131 | 37,420 | 37,551 | 16.3 | 2.08 | 67.3 | 38,646 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 7.61 | 7.97 | 3.84 | 37.5 | 0.06 | 0.05 | 1.26 | 1.32 | 0.05 | 0.25 | 0.30 | 21.6 | 6,195 | 6,217 | 2.70 | 0.34 | 11.1 | 6,398 |

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 | 40.8 | 38.5 | 19.8 | 204 | 0.38 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 38,944 | 38,944 | 2.91 | 1.98 | 166 | 39,773 |
| Area | 2.85 | 7.04 | 0.14 | 16.0 | < 0.005 | 0.02 | — | 0.02 | 0.03 | — | 0.03 | — | 66.0 | 66.0 | < 0.005 | < 0.005 | — | 66.2 |
| Energy | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 2,084 | 2,084 | 0.20 | 0.02 | — | 2,095 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Total | 43.7 | 45.6 | 20.2 | 220 | 0.38 | 0.31 | 7.48 | 7.79 | 0.30 | 1.47 | 1.77 | 131 | 41,183 | 41,313 | 16.2 | 2.06 | 167 | 42,502 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 40.4 | 38.0 | 21.5 | 201 | 0.37 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 37,488 | 37,488 | 3.13 | 2.08 | 4.31 | 38,191 |
| Area | — | 4.42 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 2,084 | 2,084 | 0.20 | 0.02 | — | 2,095 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Total | 40.4 | 42.4 | 21.8 | 201 | 0.37 | 0.29 | 7.48 | 7.77 | 0.27 | 1.47 | 1.74 | 131 | 39,661 | 39,791 | 16.4 | 2.17 | 5.19 | 40,853 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 39.7 | 37.4 | 20.7 | 194 | 0.34 | 0.25 | 6.92 | 7.17 | 0.24 | 1.36 | 1.59 | — | 35,203 | 35,203 | 3.02 | 1.99 | 66.4 | 35,938 |
| Area | 1.95 | 6.22 | 0.09 | 11.0 | < 0.005 | 0.01 | — | 0.01 | 0.02 | — | 0.02 | — | 45.2 | 45.2 | < 0.005 | < 0.005 | — | 45.3 |
| Energy | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 2,084 | 2,084 | 0.20 | 0.02 | — | 2,095 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Total | 41.7 | 43.7 | 21.1 | 206 | 0.35 | 0.29 | 6.92 | 7.21 | 0.28 | 1.36 | 1.63 | 131 | 37,420 | 37,551 | 16.3 | 2.08 | 67.3 | 38,646 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 7.25 | 6.83 | 3.77 | 35.5 | 0.06 | 0.05 | 1.26 | 1.31 | 0.04 | 0.25 | 0.29 | — | 5,828 | 5,828 | 0.50 | 0.33 | 11.0 | 5,950 |
| Area | 0.36 | 1.13 | 0.02 | 2.00 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.48 | 7.48 | < 0.005 | < 0.005 | — | 7.51 |

| | | | | | | | | | | | | | | | | | | |
|---------|------|---------|------|------|---------|---------|------|---------|---------|------|---------|------|-------|-------|------|---------|------|-------|
| Energy | 0.01 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 345 | 345 | 0.03 | < 0.005 | — | 347 |
| Water | — | — | — | — | — | — | — | — | — | — | — | 4.33 | 14.7 | 19.0 | 0.45 | 0.01 | — | 33.4 |
| Waste | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 0.00 | 17.3 | 1.73 | 0.00 | — | 60.5 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.15 | 0.15 |
| Total | 7.61 | 7.97 | 3.84 | 37.5 | 0.06 | 0.05 | 1.26 | 1.32 | 0.05 | 0.25 | 0.30 | 21.6 | 6,195 | 6,217 | 2.70 | 0.34 | 11.1 | 6,398 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 40.8 | 38.5 | 19.8 | 204 | 0.38 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 38,944 | 38,944 | 2.91 | 1.98 | 166 | 39,773 |
| Total | 40.8 | 38.5 | 19.8 | 204 | 0.38 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 38,944 | 38,944 | 2.91 | 1.98 | 166 | 39,773 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 40.4 | 38.0 | 21.5 | 201 | 0.37 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 37,488 | 37,488 | 3.13 | 2.08 | 4.31 | 38,191 |
| Total | 40.4 | 38.0 | 21.5 | 201 | 0.37 | 0.27 | 7.48 | 7.75 | 0.25 | 1.47 | 1.72 | — | 37,488 | 37,488 | 3.13 | 2.08 | 4.31 | 38,191 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 7.25 | 6.83 | 3.77 | 35.5 | 0.06 | 0.05 | 1.26 | 1.31 | 0.04 | 0.25 | 0.29 | — | 5,828 | 5,828 | 0.50 | 0.33 | 11.0 | 5,950 |

| | | | | | | | | | | | | | | | | | | |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|
| Total | 7.25 | 6.83 | 3.77 | 35.5 | 0.06 | 0.05 | 1.26 | 1.31 | 0.04 | 0.25 | 0.29 | — | 5,828 | 5,828 | 0.50 | 0.33 | 11.0 | 5,950 |
|-------|------|------|------|------|------|------|------|------|------|------|------|---|-------|-------|------|------|------|-------|

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 1,730 | 1,730 | 0.16 | 0.02 | — | 1,740 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 1,730 | 1,730 | 0.16 | 0.02 | — | 1,740 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 1,730 | 1,730 | 0.16 | 0.02 | — | 1,740 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 1,730 | 1,730 | 0.16 | 0.02 | — | 1,740 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | 286 | 286 | 0.03 | < 0.005 | — | 288 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | 286 | 286 | 0.03 | < 0.005 | — | 288 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 354 | 354 | 0.03 | < 0.005 | — | 355 |
| Total | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 354 | 354 | 0.03 | < 0.005 | — | 355 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 354 | 354 | 0.03 | < 0.005 | — | 355 |
| Total | 0.03 | 0.02 | 0.30 | 0.25 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 354 | 354 | 0.03 | < 0.005 | — | 355 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | 0.01 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 58.6 | 58.6 | 0.01 | < 0.005 | — | 58.7 |
| Total | 0.01 | < 0.005 | 0.05 | 0.05 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 58.6 | 58.6 | 0.01 | < 0.005 | — | 58.7 |

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 | — | 3.95 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|------------------------|------|------|------|------|---------|---------|---|---------|---------|---|---------|---|------|------|---------|---------|---|------|
| Architectural Coatings | — | 0.47 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 2.85 | 2.63 | 0.14 | 16.0 | < 0.005 | 0.02 | — | 0.02 | 0.03 | — | 0.03 | — | 66.0 | 66.0 | < 0.005 | < 0.005 | — | 66.2 |
| Total | 2.85 | 7.04 | 0.14 | 16.0 | < 0.005 | 0.02 | — | 0.02 | 0.03 | — | 0.03 | — | 66.0 | 66.0 | < 0.005 | < 0.005 | — | 66.2 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 3.95 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.47 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | 4.42 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | — | 0.72 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | — | 0.09 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.36 | 0.33 | 0.02 | 2.00 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.48 | 7.48 | < 0.005 | < 0.005 | — | 7.51 |
| Total | 0.36 | 1.13 | 0.02 | 2.00 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 7.48 | 7.48 | < 0.005 | < 0.005 | — | 7.51 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 26.2 | 88.8 | 115 | 2.69 | 0.06 | — | 202 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 4.33 | 14.7 | 19.0 | 0.45 | 0.01 | — | 33.4 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 4.33 | 14.7 | 19.0 | 0.45 | 0.01 | — | 33.4 |

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) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 104 | 0.00 | 104 | 10.4 | 0.00 | — | 365 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 0.00 | 17.3 | 1.73 | 0.00 | — | 60.5 |
| Total | — | — | — | — | — | — | — | — | — | — | — | 17.3 | 0.00 | 17.3 | 1.73 | 0.00 | — | 60.5 |

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

| Land Use | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|--------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|------|------|
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Total | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.89 | 0.89 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Regional Shopping Center | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 0.15 | 0.15 |
| 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 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

4.8. 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 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 |
|--------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Regional Shopping Center | 6,141 | 6,141 | 6,141 | 2,241,533 | 20,759 | 23,199 | 23,199 | 7,831,517 |

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 | 276,630 | 92,210 | — |

5.10.3. Landscape Equipment

| Season | Unit | Value |
|--------|------|-------|
|--------|------|-------|

| | | |
|-------------|--------|------|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

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) |
|--------------------------|----------------------|-----|--------|--------|-----------------------|
| Regional Shopping Center | 1,811,256 | 349 | 0.0330 | 0.0040 | 1,104,112 |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|--------------------------|-------------------------|--------------------------|
| Regional Shopping Center | 13,660,454 | 0.00 |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|--------------------------|------------------|-------------------------|
| Regional Shopping Center | 193.64 | 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 |
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|
|---------------|----------------|-------------|-----|---------------|----------------------|-------------------|----------------|

| | | | | | | | |
|--------------------------|---|--------|-------|---------|------|------|------|
| Regional Shopping Center | Other commercial A/C and heat pumps | R-410A | 2,088 | < 0.005 | 4.00 | 4.00 | 18.0 |
| Regional Shopping Center | Stand-alone retail refrigerators and freezers | R-134a | 1,430 | 0.04 | 1.00 | 0.00 | 1.00 |

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. 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 | 9.23 | annual days of extreme heat |
| Extreme Precipitation | 3.60 | 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 | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

| Indicator | Result for Project Census Tract |
|---------------------------------|---------------------------------|
| Exposure Indicators | — |
| AQ-Ozone | 53.7 |
| AQ-PM | 59.2 |
| AQ-DPM | 30.6 |
| Drinking Water | 44.6 |
| Lead Risk Housing | 34.5 |
| Pesticides | 0.00 |
| Toxic Releases | 86.8 |
| Traffic | 55.6 |
| Effect Indicators | — |
| CleanUp Sites | 0.00 |
| Groundwater | 47.4 |
| Haz Waste Facilities/Generators | 74.7 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 0.00 |

| | |
|---------------------------------|------|
| Sensitive Population | — |
| Asthma | 42.3 |
| Cardio-vascular | 34.4 |
| Low Birth Weights | 36.7 |
| Socioeconomic Factor Indicators | — |
| Education | 43.4 |
| Housing | 53.6 |
| Linguistic | 37.7 |
| Poverty | 50.2 |
| Unemployment | 3.58 |

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 | 59.19414859 |
| Employed | 97.42076222 |
| Median HI | 59.19414859 |
| Education | — |
| Bachelor's or higher | 73.0784037 |
| High school enrollment | 100 |
| Preschool enrollment | 9.713845759 |
| Transportation | — |
| Auto Access | 57.21801617 |
| Active commuting | 16.10419607 |
| Social | — |
| 2-parent households | 16.88694983 |

| | |
|--|-------------|
| Voting | 23.36712434 |
| Neighborhood | — |
| Alcohol availability | 51.4307712 |
| Park access | 41.76825356 |
| Retail density | 84.88387014 |
| Supermarket access | 69.88322854 |
| Tree canopy | 67.77877582 |
| Housing | — |
| Homeownership | 21.2498396 |
| Housing habitability | 46.43911202 |
| Low-inc homeowner severe housing cost burden | 27.30655717 |
| Low-inc renter severe housing cost burden | 80.90594123 |
| Uncrowded housing | 40.60053895 |
| Health Outcomes | — |
| Insured adults | 46.18247145 |
| Arthritis | 92.6 |
| Asthma ER Admissions | 65.9 |
| High Blood Pressure | 92.0 |
| Cancer (excluding skin) | 60.5 |
| Asthma | 80.2 |
| Coronary Heart Disease | 91.8 |
| Chronic Obstructive Pulmonary Disease | 89.8 |
| Diagnosed Diabetes | 90.6 |
| Life Expectancy at Birth | 65.4 |
| Cognitively Disabled | 35.0 |
| Physically Disabled | 85.5 |
| Heart Attack ER Admissions | 71.9 |

| | |
|---------------------------------------|------|
| Mental Health Not Good | 73.6 |
| Chronic Kidney Disease | 93.4 |
| Obesity | 86.0 |
| Pedestrian Injuries | 44.9 |
| Physical Health Not Good | 85.2 |
| Stroke | 91.3 |
| Health Risk Behaviors | — |
| Binge Drinking | 10.6 |
| Current Smoker | 71.8 |
| No Leisure Time for Physical Activity | 71.9 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 71.1 |
| Elderly | 60.7 |
| English Speaking | 61.5 |
| Foreign-born | 71.2 |
| Outdoor Workers | 41.9 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 55.4 |
| Traffic Density | 53.3 |
| Traffic Access | 57.9 |
| Other Indices | — |
| Hardship | 23.6 |
| Other Decision Support | — |
| 2016 Voting | 60.2 |

7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 34.0 |
| Healthy Places Index Score for Project Location (b) | 57.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | No |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen | Justification |
|--------------------------|-------------------|
| Operations: Vehicle Data | per traffic study |